'CLEMENT J. ZABLOCKI VA MEDICAL CENTER'

5000 W. NATIONAL AVE. MILWAUKEE, WI

inch = one foot

8
16

VA FORM 08-6231

Building 111 - Repair Expansion Tank & HVAC Piping
Phase 1 - Expansion Tanks & Filtration
PROJECT NO.: 695-13-122

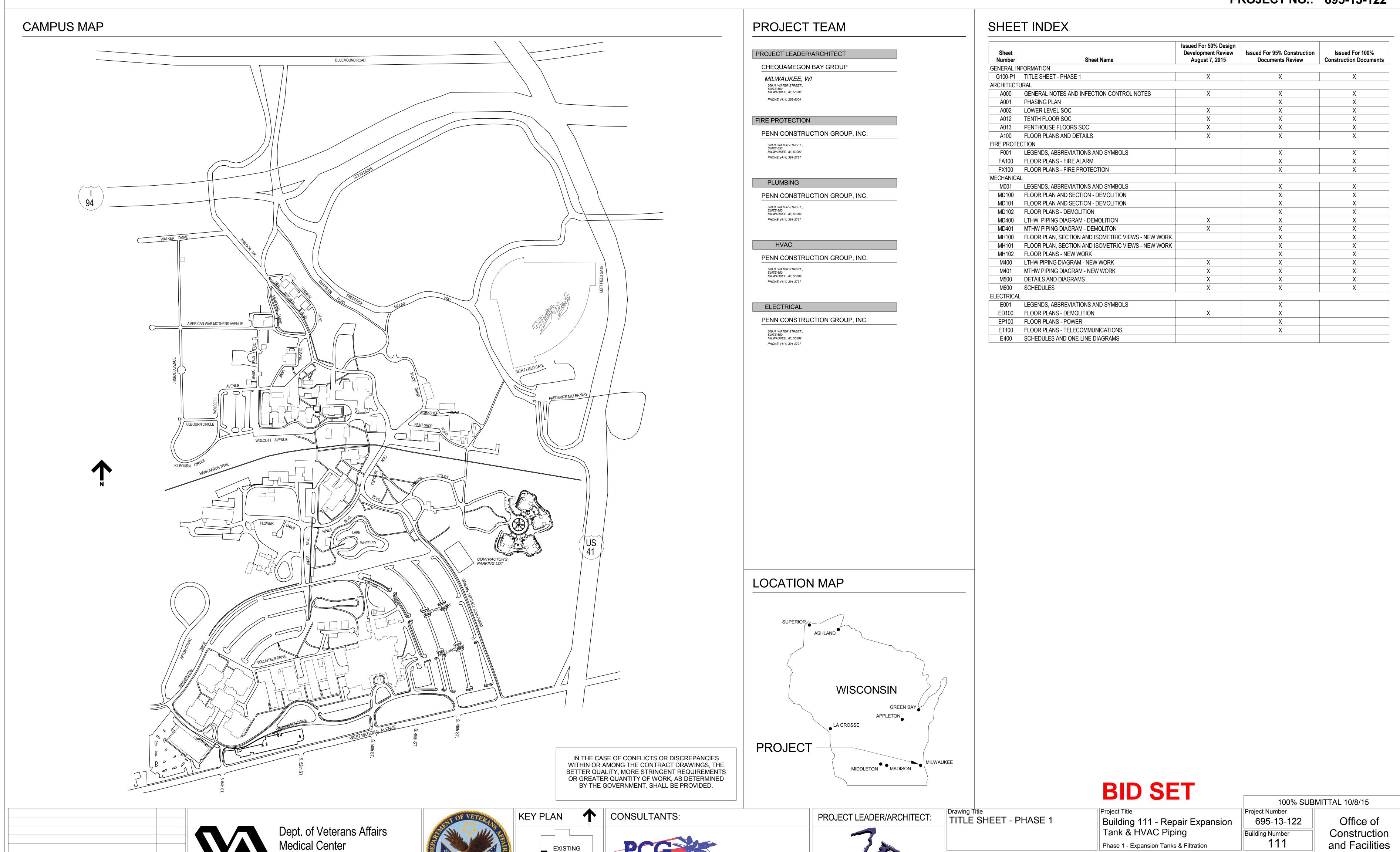
Drawing Number

KJK

Milwaukee, Wisconsin

Management

Department of Veterans Affairs



≣ SIGMA

Approved: Project Director

Chequamegon BAY GROUP, INC.

ASHLAND, WI ● MILWAUKEE, WI

BLDG. 111

5000 W. National Avenue

Milwaukee, WI

Date

Patient Risk Group	TYPE A	TYPE B	ТҮРЕ С	TYPE D
LOW Risk Group	1	H	II	
MEDIUM Risk Group	I	II	III	ÍV
HIGH Risk Group	1	H	III/IV	İV
HIGHEST Risk Group	M	III/IV	III/IV	į

D. Description of Required Infection Control Precautions by Class

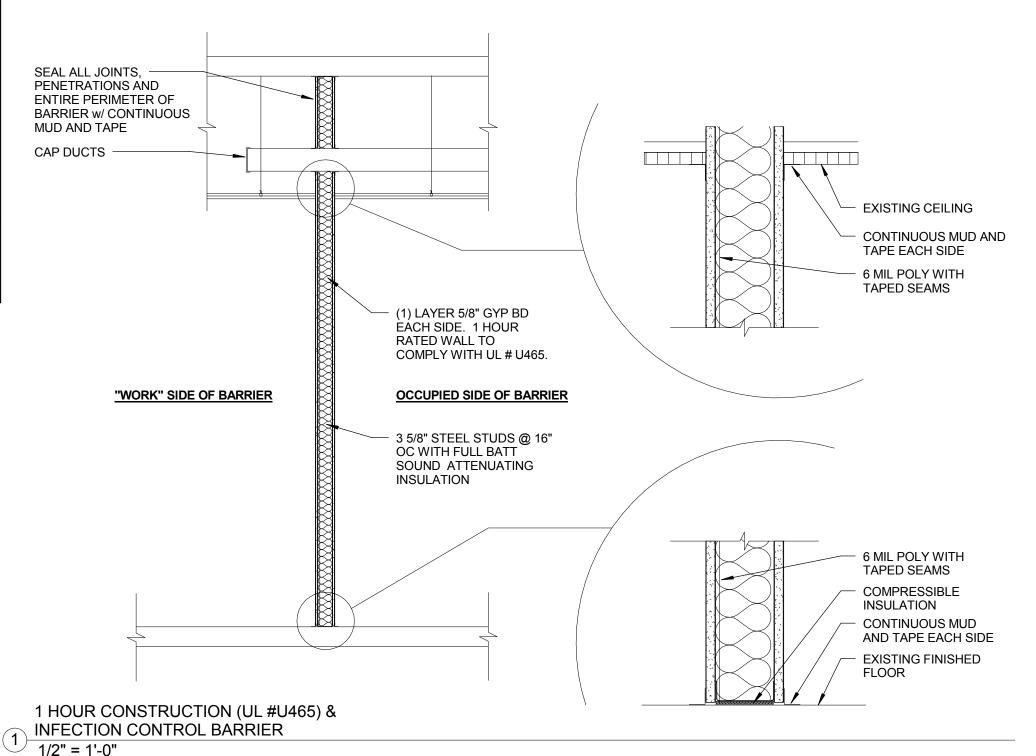
D.	Description of Required Infection Contr	ol Precautions by Class
Du	ring Construction Project	Upon Completion of Project
CLASS I	 Execute work by methods to minimize raising dust from construction operations. Immediately replace a ceiling tile displaced for visual inspection 	
CLASS II	 Provide active means to prevent airborne dust from dispersing into atmosphere. Water mist work surfaces to control dust while cutting. Seal unused doors with duct tape. Block off and seal air vents. Place dust mat at entrance and exit of work area *Remove or isolate HVAC system in areas where work is being performed. 	 Wipe work surfaces with disinfectant. Contain construction waste before transport in tightly covered containers. Wet mop and/or vacuum with HEPA filtered vacuum before leaving work area. Remove isolation of HVAC system in areas where work is being performed.
CLASS III	 *Remove or Isolate HVAC system in area where work is being done to prevent contamination of duct system. Complete all critical barriers i.e. sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. Contain construction waste before transport in tightly covered containers. Cover transport receptacles or carts. Tape covering unless solid lid. Use window for negative HEPA air exhaust when accessible. Obtain V.A, resident engineer approval for exhausting in existing exhaust ductwork. 	 Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department. Remove barrier materials carefully to minimize spreading of dirt and debris associated with construction. Vacuum work area with HEPA filtered vacuums. Wet mop area with disinfectant. Remove isolation of HVAC system in areas where work is being performed.
CLASS IV	 Isolate HVAC system in area where work is being done to prevent contamination of duct system. Complete all critical barriers i.e. sheetrock, plywood, plastic, to seal area from non-work area or implement control cube method (cart with plastic covering and sealed connection to work site with HEPA vacuum for vacuuming prior to exit) before construction begins. Maintain negative air pressure within work site utilizing HEPA equipped air filtration units. Seal holes, pipes, conduits, and punctures appropriately. Construct anteroom and require all personnel to pass through this room so they can be vacuumed using a HEPA vacuum cleaner before leaving work site or they can wear cloth or paper coveralls that are removed each time they leave the work site. All personnel entering work site are required to wear shoe covers. Shoe covers must be changed each time the worker exits the work area. Do not remove barriers from work area until completed project is inspected by the owner's Safety Department and Infection Control Department and thoroughly cleaned by the owner's Environmental Services Department. 	 Remove barrier material carefully to minimize spreading of dirt and debris associated with construction. Contain construction waste before transport in tightly covered containers. Cover transport receptacles or carts. Tape covering unless solid lid Vacuum work area with HEPA filtered vacuums. Wet mop area with disinfectant. Remove isolation of HVAC system in areas where work is being performed.

ТҮРЕ А	 Inspection and Non-Invasive Activities. Includes, but is not limited to: removal of ceiling tiles for visual inspection limited to 1 tile per 50 square feet painting (but not sanding) wall covering, electrical trim work, minor plumbing, and activities which do not generate dust or require cutting of walls or access to ceilings other than for visual inspection.
ТҮРЕ В	Small scale, short duration activities which create minimal dust Includes, but is not limited to: installation of telephone and computer cabling access to chase spaces cutting of walls or ceiling where dust migration can be controlled.
ТҮРЕ С	Work that generates a moderate to high level of dust or requires demolition or removal of any fixed building components or assemblies Includes, but is not limited to: sanding of walls for painting or wall covering removal of floor coverings, ceiling tiles and casework new wall construction minor duct work or electrical work above ceilings major cabling activities any activity that cannot be completed within a single work shift.
TYPE D	Major demolition and construction projects Includes, but is not limited to: activities which require consecutive work shifts requires heavy demolition or removal of a complete cabling system new construction.

VA FORM 08-623

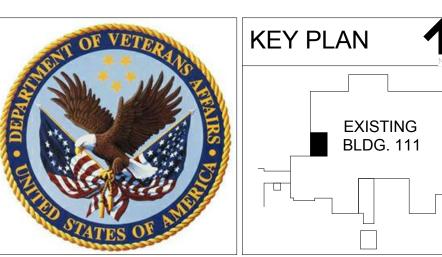
INFECTIOUS CONTROL GENERAL NOTES

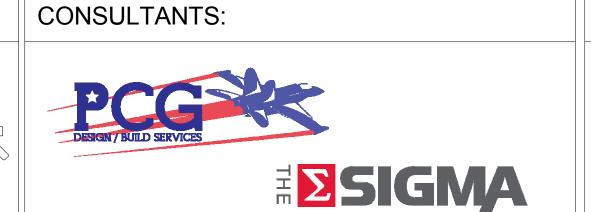
- 1. THE INTENT OF INFECTION CONTROL ISOLATION IS TO PROTECT PATIENTS IN THE HOSPITAL WHICH HAVE LOW IMMUNE LEVELS. THEREFORE, CONSTRUCTION OPERATIONS NEED TO BE DIRECTED TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA PERIMETER NEEDS TO BE SEALED COMPLETELY WITH MIN 4 MIL POLY AND DUCT TAPE DURING CLASS II, III, OR IV OPERATIONS.
- 2. PROVIDE TRIATEK ISOLATION MONITORS DURING CLASS III OR CLASS IV CONSTRUCTION OPERATIONS. EACH AREA TO BE UNDER NEGATIVE PRESSURE (0.02"WC) DURING THESE OPERATIONS. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOM AS DIRECTED BY VA R.E.
- 3. AS CONSTRUCTION PROGRESSES, FROM TYPE D TO TYPE C (SEE SPECIFICATION SECTION "INFECTION CONTROL") AND THEREON, PROVIDE A REQUEST VIA "INFECTION CONTROL CONSTRUCTION PERMIT" TO THE VA INFECTION CONTROL NURSE. UPON AUTHORIZATION, PROCEED TO NEXT TYPE OF CONSTRUCTION. PROVIDE AT LEAST 10 DAYS NOTICE FOR EACH PERMIT.
- 4. CONSTRUCT IC (INFECTION CONTROL) CONSTRUCTION BARRIER FROM FLOOR TO DECK/FLOOR ABOVE. SEE DETAIL 1/A000. EXCEPTION: IF BARRIER IS ADJACENT TO A SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR OR DECK ABOVE, THEN CONSTRUCT IC BARRIER FROM FLOOR TO ABOVE CORRIDOR CEILING WITH 6 MIL POLY BEING SEALED ON ALL EDGES: FLOOR, TOP OF WALL, SIDES, AND ALL PENETRATIONS.
- 5. REFER TO SPECIFICATIONS SECTION 010110 FOR TEMPORARY INFECTION CONTROL BARRIER WALL CONSTRUCTION DETAIL. GENERAL CONTRACTOR SHALL PROVIDE NEW CONSTRUCTION ACCESS DOORS AND PROXIMITY CARD READERS AT ALL BARRIERS. MAINTAIN ALL INFECTION CONTROL STANDARDS. CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 A.M. AND AFTER 8:00 P.M. IN OCCUPIED AREAS.
- 6. PROVIDE BALANCING DAMPERS IN THE MAIN SUPPLY AND EXHAUST DUCT WORK SERVING THESE AREAS. TEMPORARILY BALANCE AIR FLOW TO PROVIDE NEGATIVE AIR FLOW IN CONSTRUCTION ZONE AT ALL TIMES AS INDICATED BELOW. DAMPERS TO REMAIN IN DUCT AFTER CONSTRUCTION IS COMPLETE AND IS TO BE SECURED IN FINAL BALANCING POSITION PRIOR TO TURNING SYSTEM OVER FOR OCCUPANCY
- OURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE TRIATEK ISOLATION MONITORS, MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 5000 SF, AND (3) THREE FOR AREAS BETWEEN 5000 SF AND 10000 SF. INSTALL NEW YELLOW CONSTRUCTION DOOR. EGRESS IS TO BE MAINTAINED TO THE STAIRWELLS AT ALL TIMES.
- 8. THE CONTRACTOR SHALL PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXCHANGE THE REGULATED AREA AIR VOLUME (4) FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON SHALL DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUBIC FEET IN THE REGULATED AREA BY (15) FIFTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUBIC FEET PER MINUTE (CFM) FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED TO EFFECT (4) FOUR AIR CHANGES PER HOUR. PROVIDE A STANDBY UNIT IN THE EVENT OF MACHINE FAILURE AND/OR EMERGENCY IN AN ADJACENT AREA.
- 9. PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED WALLS, CONSTRUCT NEW SMOKE BARRIER/APPROPRIATE FIRE RATED WALLS PER NEW PLANS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.
- 10. FOR UPPER FLOOR CONSTRUCTION PROVIDE ENCLOSED CHUTE AND ENCLOSED DUMPSTER FOR CONSTRUCTION DEBRIS HANDLING. ENCLOSE AREA WITH CYCLONE FENCE AND LOCKED GATE. PROVIDE TO VA SUBMITTAL FOR APPROVAL OF CHUTE DESIGN, CONSTRUCTION, AND ANCHORING TO BUILDING. RESTORE BUILDING, GROUNDS, AND ALL AFFECTED AREAS TO LIKE NEW CONDITION AFTER COMPLETION OF CHUTE-REQUIRED OPERATIONS.
- 11. ALL CONSTRUCTION DEBRIS, WASTE, AND TRANSPORTATION OF DEMOLITION ITEMS SHALL BE CONVEYED IN A COVERED DUMPSTER CONTAINER SUCH THAT NO DEBRIS/ITEMS ARE VISIBLE. ALL CONTAINERS SHALL BE TRANSPORTED DOWN THE 'B' BANK FREIGHT ELEVATORS (A DESIGNATED ELEVATOR WILL NOT BE PROVIDED FOR TRANSPORTATION.) A MINIMUM OF ONE RUNOFF MAT ON THE INSIDE AND MINIMUM OF TWO WALK-OFF MATS ON THE OUTSIDE SHALL BE PROVIDED FOR THE CONSTRUCTION ACCESS DOORS.



Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI

Date







INFECTI NOTES

Approved: Pro

Drawing Title GENERAL NOTES AND INFECTION CONTROL NOTES Approved: Project Director Project Title Building 111 - Repair Extra Tank & HVAC Piping Location

Building 111 - Repair Expansion
Tank & HVAC Piping

Building Number
111

Location
Milwaukee, Wisconsin

Date
Checked
Drawn

695-13-122

Building Number
111

Drawing Number

KJK

Office of
Construction
and Facilities
Management

100% SUBMITTAL 10/8/15

Project Number

Department of Veterans Affairs

FIRE AND SAFETY NOTES

- MAINTAINING THE INTEGRITY OF THE FIRE AND SAFETY SYSTEMS IN PLACE IN THE MEDICAL CENTER AND ALL OF ITS OUT BUILDINGS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- . IN ADDITION TO ALL VA MEDICAL CENTER POLICIES, ALL NATIONAL, STATE, AND LOCAL CODES AND ORDINANCES SHALL APPLY TO ALL OF THEIR CONTRACTORS AND SUBCONTRACTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL PERTINENT OSHA SAFETY REQUIREMENTS.
- 4. PROVIDE LOCKOUT-TAGOUT AND CONFINED SPACE ENTRY POLICIES AS APPLICABLE AND AS REQUIRED BY OSHA. THESE POLICIES SHALL BE SUBMITTED FOR PRIOR APPROVAL BY THE VA SAFETY OFFICER / MANAGER.
- 5. SUBMIT APPROPRIATE INTERIM LIFE SAFETY MEASURES. REFER TO SPECIFICATION 01 01 10 FOR MORE INFORMATION.
- CONSTRUCT TEMPORARY CONSTRUCTION PARTITIONS OF NON-COMBUSTIBLE MATERIALS WHICH PROVIDE A SMOKE TIGHT SEPARATION BETWEEN THE CONSTRUCTION AREAS AND ALL OTHER OCCUPIED AREAS. MAINTAIN INTEGRITY OF THE ENCLOSURE DURING THE CONSTRUCTION. REFER TO SPECIFICATION SECTION 00 01 10-1HR.
- EXISTING FIRE PROTECTION SYSTEMS, INCLUDING FIRE ALARM SYSTEMS, SMOKE DETECTION SYSTEMS, AND SPRINKLER SYSTEMS SHALL NOT BE IMPAIRED DURING CONSTRUCTION. SMOKE DETECTOR DISABLE REQUESTS: OUTAGE REQUESTS TO BE SUBMITTED TO FM ENGINEER FOR APPROVAL FOR SPECIFIC DATE AND TIME. ALARMS WILL ONLY BE TURNED OFF FOR SPECIFIC SHIFTS REQUESTED AND WHEN CONTRACTORS ARE IN THE CONSTRUCTION AREA. ALARMS WILL BE RESTORED AT THE END OF THE WORK DAY BY CALLING THE SAME EXTENSION. AT NO TIME WILL ALARMS REMAIN OFF OVERNIGHT. SMOKE DETECTORS AND OR SPRINKLER HEADS: DO NOT COVER BY BAGS, TAPE, AND PLASTIC OR IN ANY OTHER MANNER THAT WILL DEFEAT THEIR ABILITY TO SENSE SMOKE OR HEAT AND OPERATE AS DESIGNED.
- DAILY ACCUMULATIONS OF TRASH, COMBUSTIBLE MATERIALS, PACKAGING, AND DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION AREA ON A DAILY BASIS. FLAMMABLE MATERIALS MAY BE STORED ON SITE IN AN APPROVED AND APPROPRIATELY MARKED FLAMMABLE MATERIALS CABINET.
- ALL BUILDINGS ON THIS MEDICAL CENTER ARE SMOKE FREE ZONES. USE OF SMOKING MATERIALS IS PROHIBITED, EXCEPT IN DESIGNATED SMOKING SHELTERS AND OUT OF DOORS.

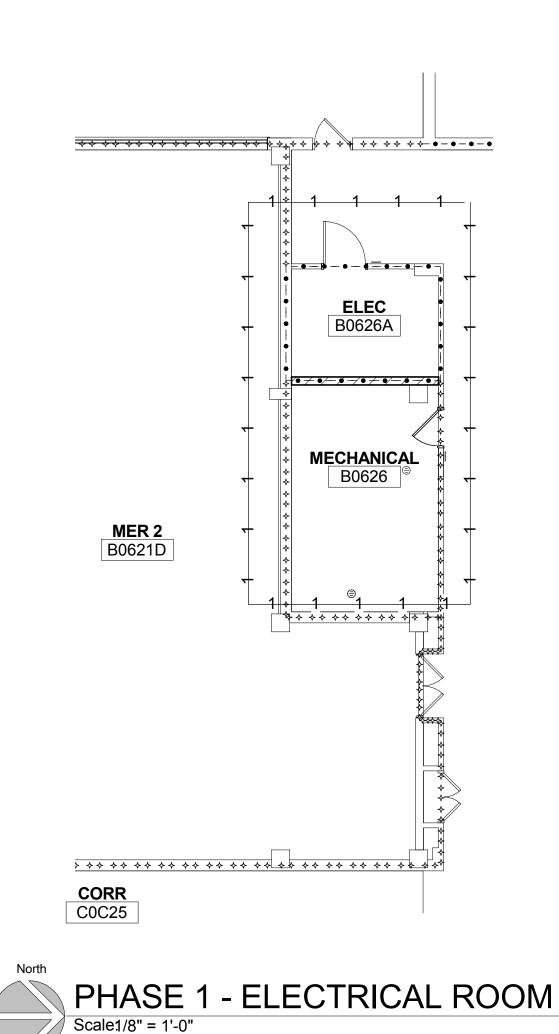
GENERAL CONSTRUCTION NOTES

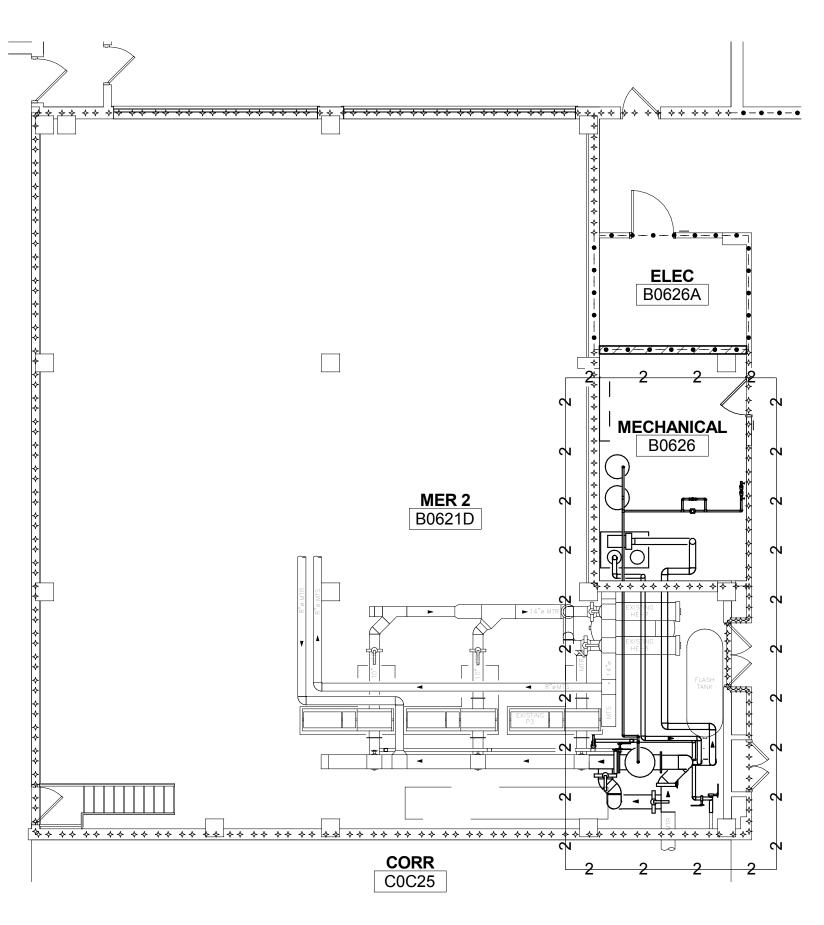
- 1. PATCH AND REPAIR ALL AREAS AFFECTED BY DEMO AND / OR CONSTRUCTION TO MATCH EXISTING. PATCHED AREAS ARE TO RECEIVE FINISHES AND TRIM TO MATCH ADJACENT AREA, EXCEPT AS NOTED IN THE ROOM FINISH SCHEDULE. PATCH CEILINGS AND FLOORS TO ACHIEVE A CONTINUOUS FINISHED APPEARANCE.
- ALL EQUIPMENT TO BE DISCONNECTED AND REMOVED BY CONTRACTOR. VA TO BE NOTIFIED WHEN EQUIPMENT IS AVAILABLE AND BE GIVEN THE OPTION TO TAKE POSSESSION OF ALL EQUIPMENT. CONTRACTOR TO DISPOSE OF ALL EQUIPMENT THE VA DOES NOT WANT AND REMOVE ALL ITEMS WITH EXTREME CARE.
- REMOVE, RELOCATE, STORE AND REINSTALL PORTABLE EQUIPMENT, FURNITURE, SHELVES, CURTAIN RODS, DRAPERY, BULLETIN BOARDS, WHICH WOULD INTERFERE WITH DEMOLITION WORK.
- PROTECT ALL EXISTING SURFACES FROM DAMAGE. ANY DAMAGED SURFACES SHALL BE REPLACED TO MATCH ORIGINAL ITEM OR REPAIRED TO MATCH EXISTING OR ADJACENT MATERIAL AS APPROVED BY THE VA COTR.
- ACM ABATEMENT CONTRACTOR: REMOVE ACM MATERIALS IDENTIFIED IN PLANS AND SPECIFICATIONS, AND IN ACM REPORT. NOTIFY ENGINEERING PRIOR TO REMOVAL OF ANY ACM MATERIALS FOR APPROVAL OF CONTAINMENT, SETUP, AND REMOVAL PROCEDURES. OBTAIN APPROVAL PRIOR TO STARTING ACM REMOVAL. NOTIFY ENGINEERING PRIOR TO ENCAPSULATION TO HAVE VAI.H. APPROVE REMOVAL. PROVIDE MINIMUM 14 DAYS NOTICE. PROVIDE ACM DISPOSAL DOCUMENTATION PRIOR TO RELEASE OF RETAINAGE AND FINAL PAYMENT.
- 6. VERIFY EXISTING CONDITIONS AND LOCATIONS IN FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO SHALL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK REQUIRED UNDER THIS CONTRACT.
- ALL SUB-CONTRACTORS ARE ENCOURAGED TO VISIT AND ATTEND A PRE-BID WALK THRU TO INSPECT THE EXISTING AREA AND THOROUGHLY FAMILIARIZE THEMSELVES WITH ACTUAL JOB CONDITIONS BEFORE SUBMITTING BID.
- 3. WHILE THE SIZE AND LOCATION OF NEW WORK AND EQUIPMENT IN THE EXISTING AREA HAS BEEN INDICATED ON THE DRAWINGS AS ACCURATELY AS POSSIBLE, CONTRACTOR SHALL ADJUST HIS WORK AS REQUIRED TO AVOID EXISTING UTILITIES, GAS LINES, SEWER, FIRE ALARM, ROOF DRAINS, ACCESS COVERS, AND OTHER STRUCTURES NOT PARTICULARLY SHOWN ON THE PLAN AT NO ADDITIONAL COST. BEFORE CONSTRUCTION, INSPECT PREMISES MAKE A DETAILED EXAMINATION OF ALL LOCATIONS WHERE NEW WORK IS TO BE INSTALLED, EXAMINE EXISTING PIPING, CONDUITS, STRUCTURAL SUPPORTING BEAMS, AND OTHER CONDITIONS.
- 9. DISCONNECT AT SOURCE AND REMOVE EXISTING MECHANICAL AND ELECTRICAL MATERIALS AND EQUIPMENT WHICH ARE RENDERED OBSOLETE BY THESE ALTERATIONS AND ADDITIONS. VA TO BE GIVEN THE OPTION TO TAKE POSSESSION OF REMOVED EQUIPMENT AND MATERIALS. ANY EQUIPMENT THAT THE VA DOES NOT WANT ARE THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. NO MECHANICAL, ELECTRICAL, PLUMBING EQUIPMENT, ETC. SHALL BE ABANDONED IN PLACE.
- 10. DISCONNECT, REMOVE AND RELOCATE EXISTING MECHANICAL AND ELECTRICAL MATERIALS AND EQUIPMENT WHICH INTERFERE OR ARE INTERFERED WITH, OBSTRUCT OR ARE OBSTRUCTED BY, THESE ALTERATIONS AND ADDITIONS. PERMANENTLY INSTALL SUCH ITEMS IN NEW LOCATIONS AS DIRECTED. RECONNECT SUCH ITEMS IN PROPER OPERATING CONDITION AT NEW LOCATIONS.
- 11. DO NOT INTERFERE WITH EXISTING BUILDING'S MECHANICAL, ELECTRICAL, AND SECURITY SYSTEMS OPERATIONS. IF IT IS ABSOLUTELY NECESSARY TO SHUT DOWN FACILITY SYSTEMS AT ANY TIME, CONSULT OWNER AND ENGINEER TO MAKE ARRANGEMENTS TO DO SO ON OFF WORKING HOUR PERIODS AT THE OWNER'S CONVENIENCE. PRIOR NOTICE SHALL BE GIVEN TO THE OWNER AND THE ARCHITECT (14) DAYS IN ADVANCE OF THE DESIRED SHUT-DOWN TIME. ANY PREMIUM OR OVERTIME COSTS NECESSARY TO ACCOMPLISH THE ABOVE SHALL BE INCLUDED IN THIS BID. FAILURE TO PROCEED WITHOUT PROPER PRIOR NOTIFICATION MAY RESULT IN THE ASSESSMENT OF A CREDIT TO THE CONTRACT.
- 12. TYPICAL EXISTING FLOOR TO FLOOR HEIGHTS FOR BUILDING 111 ARE 13'-9-3/8" (+/-) FROM BASEMENT TO SECOND FLOORS AND 11'-6-5/8" (+/-) FROM THIRD FLOOR THRU TENTH FLOOR. FLOOR CONSTRUCTION IS 10" (+/-) CONCRETE FLOORS, WITH CONCRETE COLUMNS AND FLOOR BEAMS. ALL AS-BUILT CONDITIONS SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- 13. IN ALL CONSTRUCTION ZONES AND AREAS, CONTRACTOR RESPONSIBLE FOR MAINTAINING AN ACTIVE STROBE SPEAKER SYSTEM AT ALL TIMES. TYPICAL FOR ALL CONSTRUCTION ZONES FOR BUILDING 111.
- 14 <u>HOT WORK</u> SEE SPECIFICATION SECTIONS 01 01 10 SN SPECIAL NOTES AND 01 35 26 SAFETY REQUIREMENTS FOR ALL HOT WORK.
- 15. **WORK HOURS:**

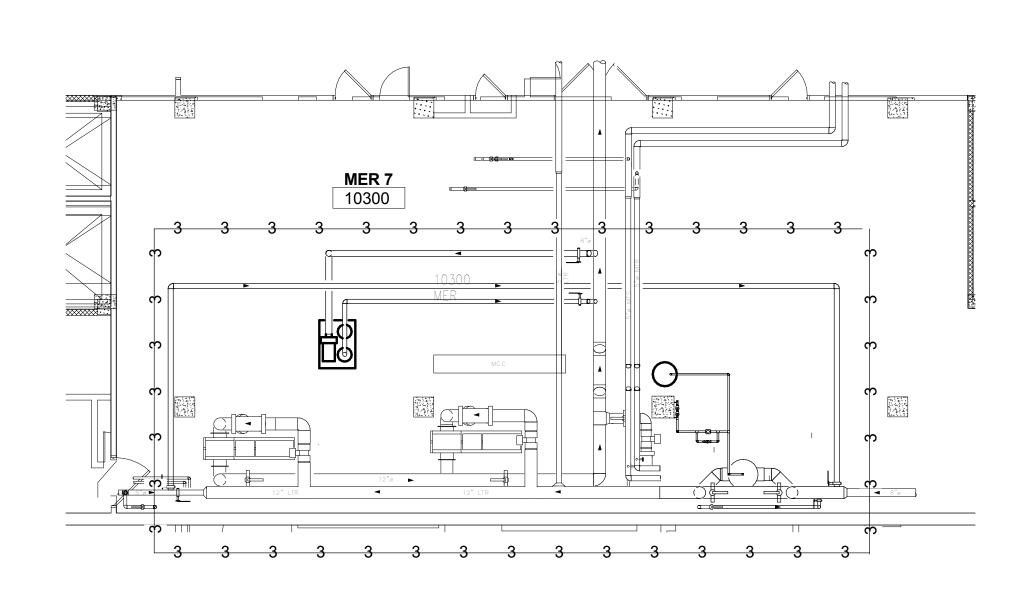
AND/OR TRUCK SPACE / CRANES.

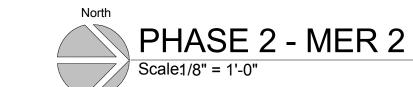
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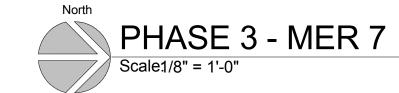
- <u>DAYTIME</u> NORMAL WORK THAT DOES <u>NOT</u> CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
- 16. 8PM-6AM WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
- 17 <u>WEEKENDS</u> WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES

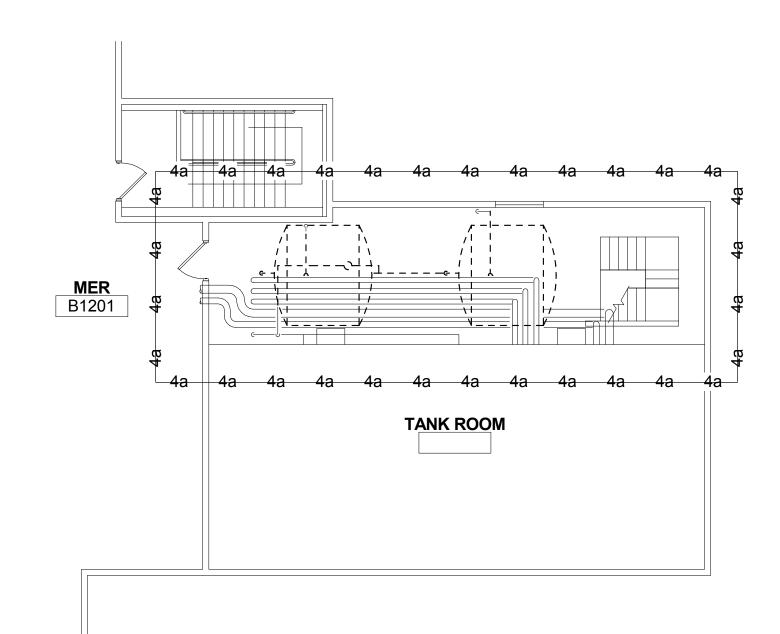




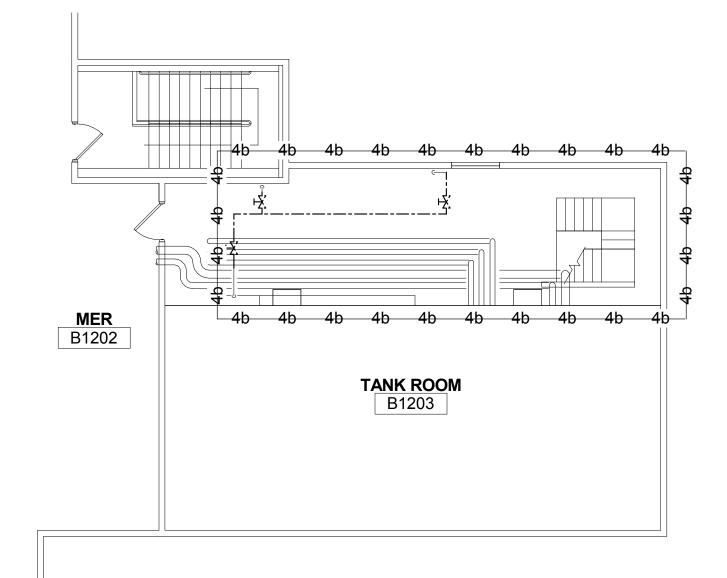














PHASING PLAN SYMBOLS

—1 INDICATES PHASE - SEE PHASING NOTES

-•-•-•- ONE HOUR FIRE RESISTIVE WALL ASSEMBLY

***** SMOKE RESISTIVE WALL ASSEMBLY

CONSTRUCTION LIMITS

PHASING PLAN GENERAL NOTES

- THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULES AS PER SPEC SECTION 01 01 10 SN - SPECIAL NOTES.
- 2. ALL OUTAGES SHALL BE SCHEDULED FOR **OFF-HOURS** (PREMIUM TIME).
- WORK ON HEATING SYSTEMS SHALL TAKE PLACE DURING THE NON-HEATING SEASON TO REDUCE DISPRUTIONS OF HOSPITAL OPERATIONS.
- <u>HOT WORK</u> SEE SPECIFICATION SECTIONS 01 01 10 SN SPECIAL NOTES AND 01 35 26 SAFETY REQUIREMENTS FOR ALL HOT WORK.
- PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
- HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR.

- <u>DAYTIME</u> NORMAL WORK THAT DOES <u>NOT</u> CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.
- 8PM-6AM WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.
- <u>WEEKENDS</u> WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE / CRANES.

e. INSTALL NEW FLOOR DRAIN

a. INSTALL THE NEW SEPARATION WALL WITHIN ROOM B0626.

- REMOVE LIGHTING AND RECEPTACLES AS REQUIRED.
- c. MODIFY SPRINKLER PIPING AND SPRINKLER HEADS AS REQUIRED. d. INSTALL NEW LIGHTING AND RECEPTACLES AS REQUIRED.

PHASING NOTES

a. INSTALL HOT TAPS ON 14" MTR PIPING FOR NEW BYPASS PIPING AS INDICATED ON SHEET MD100. MD400, M100, AND M400. (APPROX. 4-6 HRS). INSTALL BYPASS PIPING AND ENSURE SYSTEM IS STILL PROPERLY OPERATIONAL BEFORE PROCEEDING TO ANY ADDITIONAL WORK.

- ONCE IT IS DETERMINED BY THE A/E AND VA THAT THE SYSTEM IS OPERATING PROPERLY THROUGH THE NEW BYPASS PIPING, PRECEED WITH DEMOLITION OF THE REMAINING PIPING AS INDICATED ON SHEETS MD100 AND MD400.
- INSTALL THE NEW AIR SEPARATOR AS-1, EXPANSION TANKS ET-1 AND ET-2, SIDE STREAM FILTRATION SSF-1, AND THE AUTOMATIC WATER TREATMENT SYSTEM. THIS INCLUDES
- ASSOCIATED PIPING, VALVES, AND ACCESSORIES.
- ALLOW 14 DAYS FOR TESTING AND ACCEPTANCE OF SYSTEM IN ADDITION TO THE FILTERATION PERIOD, SEE PHASE 5.
- PROVIDE ELECTRICAL MOTOR CONNECTIONS TO EQUIPMENT AS REQUIRED. MODIFY SPRINKLER HEADS AND OR PIPING AS REQUIRED FOR INSTALLATION OF NEW
- THE FILTRATION SYSTEM SHALL BE INTEGRATED INTO THE BUILDING AUTOMATION SYSTEM (BAS),
- THE SYSTEM SHALL BE COMMISSIONED, INCLUDING TESTING OF ALARMS, FLOW MEASUREMENT, COMMUNICATIONS, AND GRAPHICS INTEGRATION.

- a. INSTALL HOT TAPS ON 8" LTR PIPING FOR NEW BYPASS PIPING AS INDICATED ON SHEET MD101, MD401, M101, AND M401 (APPROX. 4-6 HRS). INSTALL BYPASS PIPING AND ENSURE SYSTEM IS
- STILL PROPERLY OPERATIONAL BEFORE PROCEEDING TO ANY ADDITIONAL WORK. ONCE IT IS DETERMINED BY THE A/E AND VA THAT THE SYSTEM IS OPERATING PROPERLY THROUGH THE NEW BYPASS PIPING, PRECEED WITH DEMOLITION OF THE REMAINING PIPING AS INDICATED ON THE CONSTRUCTION DOCUMENTS.
- INSTALL THE NEW AIR SEPARATOR AS-1, EXPANSION TANKS ET-3, SIDE STREAM FILTRATION SSF-2, AND THE AUTOMATIC WATER TREATMENT SYSTEM. THIS INCLUDES ASSOCIATED PIPING,
- VALVES, AND ACCESSORIES.
- ALLOW 14 DAYS FOR TESTING AND ACCEPTANCE OF SYSTEM IN ADDITION TO THE FILTERATION
- PERIOD, SEE PHASE 5. REROUTE EXISTING 5" LTR PIPIING AS SHOWN ON DRAWING.
- PROVIDE ELECTRICAL MOTOR CONNECTIONS TO EQUIPMENT AS REQUIRED.
- MODIFY SPRINKLER HEADS AND OR PIPING AS REQUIRED FOR INSTALLATION OF NEW
- THE FILTRATION SYSTEM SHALL BE INTEGRATED INTO THE BUILDING AUTOMATION SYSTEM (BAS),
- THE SYSTEM SHALL BE COMMISSIONED, INCLUDING TESTING OF ALARMS, FLOW MEASUREMENT, COMMUNICATIONS, AND GRAPHICS INTEGRATION.

PHASE 4 – DEMOLITION OF EXISTING EXPANSION TANKS

BID SET

- ONCE EACH FILTRATION SYSTEM IS OPERATIONAL, THE CONTRACTOR CAN PROCEED WITH ISOLATION AND DISCONNECTING THE EXISTING EXPANSION TANKS AND PIPING IN THE 13TH
- FLOOR PENTHOUSE PER SHEET MD102. RECONNECT THE COLD WATER PIPING AFTER THE BACKFLOW PREVENTOR TO THE MTHW AND

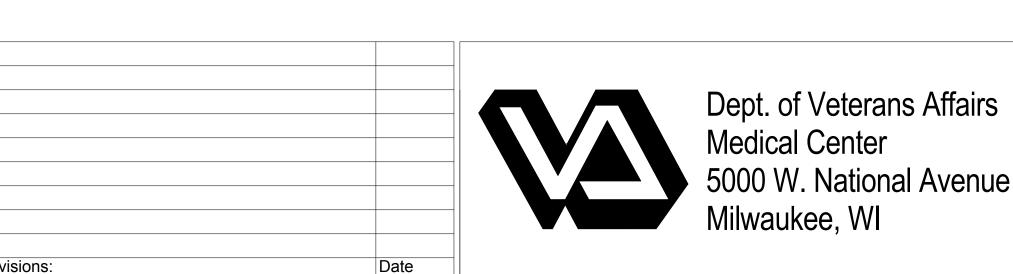
LTHW CONNECTION TO BE USED AS A FILL POINT FOR THOSE SYSTEMS.

PHASE 5 – FILTRATION SYSTEM OPERATION PERIOD

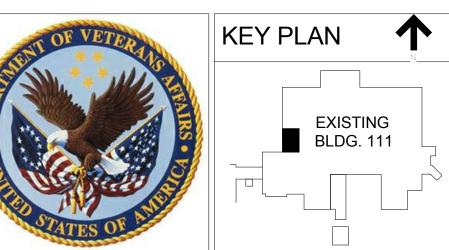
a. ONCE EACH FILTRATION SYSTEM IS OPERATIONAL AND ALL CONSTRUCTION WORK TO THE PIPING SYSTEM IS COMPLETE, THE CONTRACTOR AND VA WILL MONITOR BOTH THE NEW FILTRATION SYSTEM AND THE EACH DISTRIBUTION SYSTEM FOR A MINIMUM OF 2 MONTH.

DURING THIS PERIOD THE FILTRATION SYSTEM AND WATER TREATMENT SYSTEM WILL NEED TO BE MAINTAINED AS DURING THIS PERIOD WILL BE THE HIGHEST LEVEL OF DEBRI COLLECTION.

KJK



VA FORM 08-6231







Drawing Title PHASING PLAN	Project Title Building 111 - Repair Expansion Tank & HVAC Piping
	Phase 1 - Expansion Tanks & Filtration
Approved: Project Director	Milwaukee, Wisconsin
	Date Checked Drawn

Office of 695-13-122 Construction **Building Number** and Facilities **Drawing Number** Management

Project Number

100% SUBMITTAL 10/8/15

Department of Veterans Affairs

SUITE DESCRIPTIONS SUITE NUMBER SUITE NAME SUITE SIZE TYPE OF SUITE NON SLEEPING PATIENT CARE LINEAR ACCELERATOR 6,737 Sq. Ft.

GENERAL DRAWING NOTES:

EQUIVALENCIES HAVE BEEN GRANTED FOR THE FOLLOWING:

1. SELF CLOSING DOOR HARDWARE IN DOMICILLIARY OCCUPANCIES-DATED 1/09/98

2. INSTALLATION OF WIRELESS ACCESS POINT EQUIPMENT WITHIN EXIT STAIR ENCLOSURES-DATED 2/11/10

SYMBOLS LIST

2 HOUR FIRE BARRIER

1 HOUR FIRE BARRIER

HOUR FIRE/SMOKE BARRIER

HOUR FIRE/SMOKE BARRIER

30 MINUTE SMOKE BARRIER

SMOKE RESISTIVE HAZARDOUS AREA HORIZONTAL EXIT PASSAGEWAY

EXIT PASSAGEWAY

TRASH CHUTE

LINEN CHUTE

SUITE DESIGNATIONS

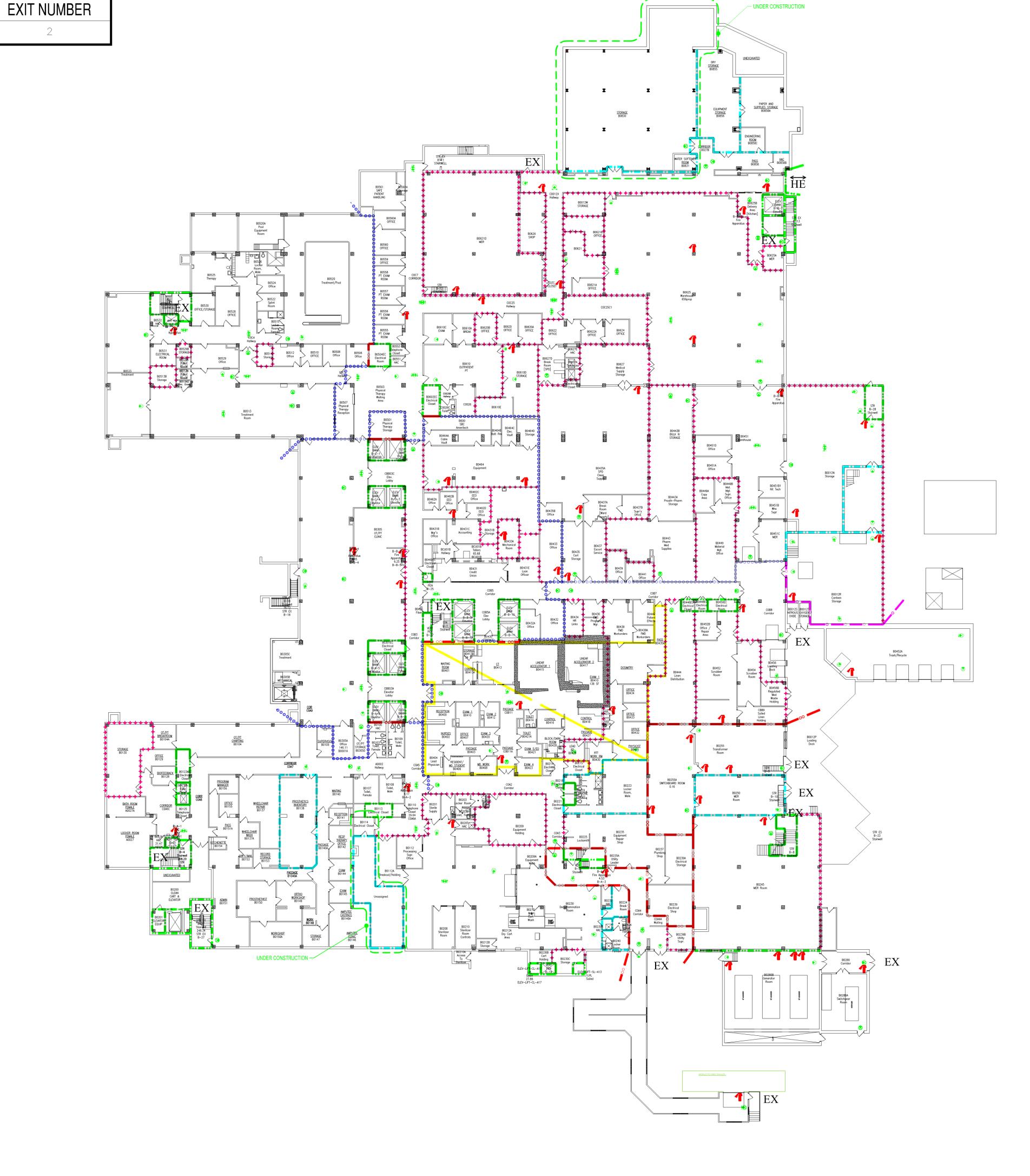
AREA OPEN TO CORRIDOR - WITH SMOKE DETECTION

Date

AREA OPEN TO CORRIDOR - NO SMOKE DETECTION REQUIRED

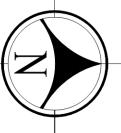
SOC GENERAL NOTES

- SEE SPECIFICATION SECTION 01 01 10 IC FOR INFECTION CONTROL REQUIREMENTS
- SEE SPECIFICATION SECTION 01 01 10 1HR FOR INFECTION CONTROL BARRIERS
- 3. SEE GENERAL NOTES AND INFECTION CONTROL DRAWING FOR ADDITIONAL REQUIREMENTS



BLDG 111 OCCUPANCY

BUSINESS 124,053s.f. AMBULATORY 495,766s.f. HAP 201,362s.f.



BUILDING 111 BASEMENT

FULLY SPRINKLERED AMBULATORY HEALTH CARE OCCUPANCY

BID SET

	100% SUBMITTAL 10/8/15					
itle	Project Number					
ng 111 - Repair Expansion	695-13-122	Office of				
& HVAC Piping	Building Number	Construction				
- Expansion Tanks & Filtration	111	and Facilities				
aukee, Wisconsin	Drawing Number	Management				

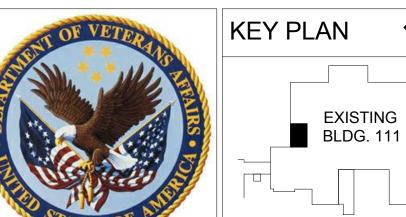
Project Title
Building Tank 8 Phase 1 Location

KJK

Department of Veterans Affairs

Dept. of Veterans Affairs Medical Center 5000 W. National Avenue

Milwaukee, WI







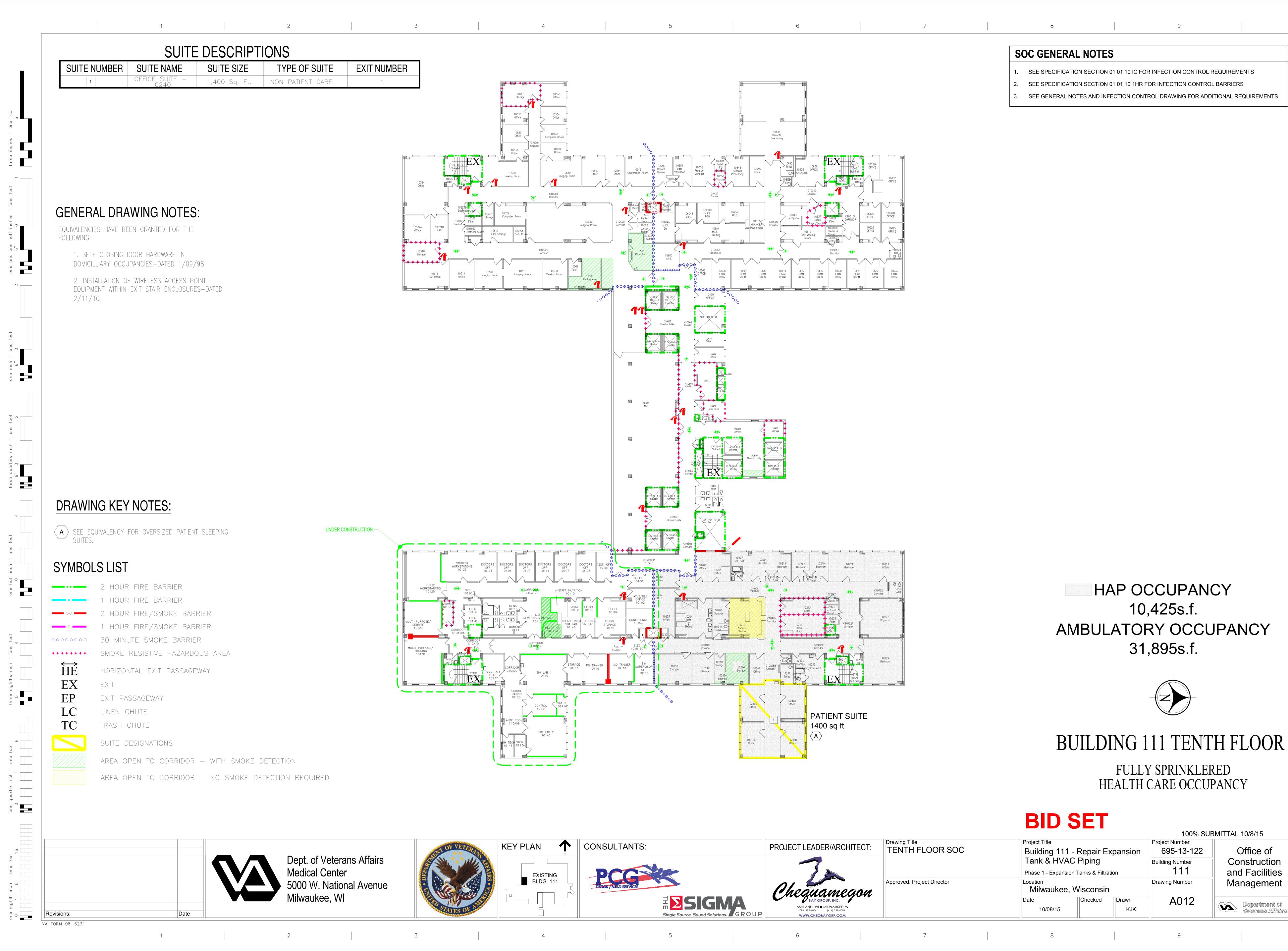
Drawing Title
LOWER LEVEL SOC

Approved: Project Director

VA FORM 08-6231

one eighth inch = one foot

0 4 8 16



Department of Veterans Affairs

SOC GENERAL NOTES

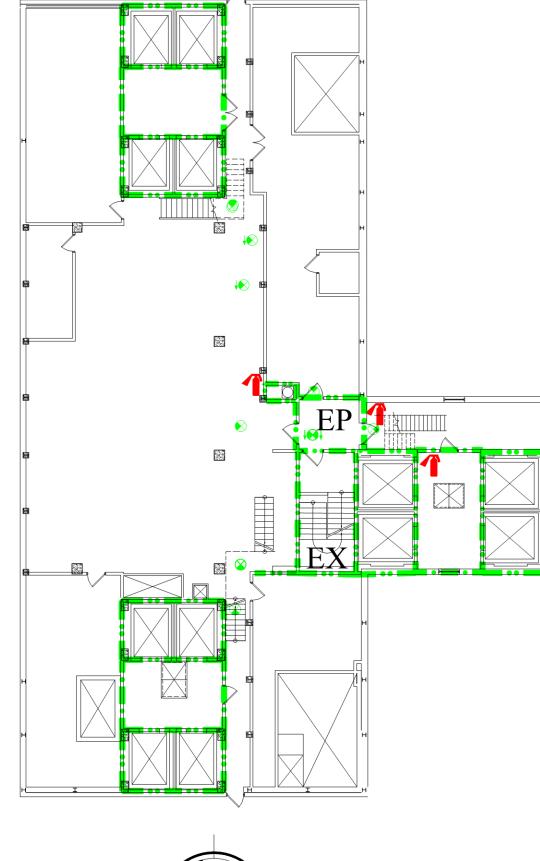
- SEE SPECIFICATION SECTION 01 01 10 IC FOR INFECTION CONTROL REQUIREMENTS
- SEE SPECIFICATION SECTION 01 01 10 1HR FOR INFECTION CONTROL BARRIERS
- SEE GENERAL NOTES AND INFECTION CONTROL DRAWING FOR ADDITIONAL REQUIREMENTS

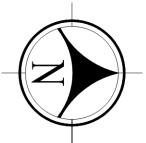
GENERAL DRAWING NOTES:

EQUIVALENCIES HAVE BEEN GRANTED FOR THE FOLLOWING:

> 1. SELF CLOSING DOOR HARDWARE IN DOMICILLIARY OCCUPANCIES-DATED 1/09/98

2. INSTALLATION OF WIRELESS ACCESS POINT EQUIPMENT WITHIN EXIT STAIR ENCLOSURES-DATED 2/11/10

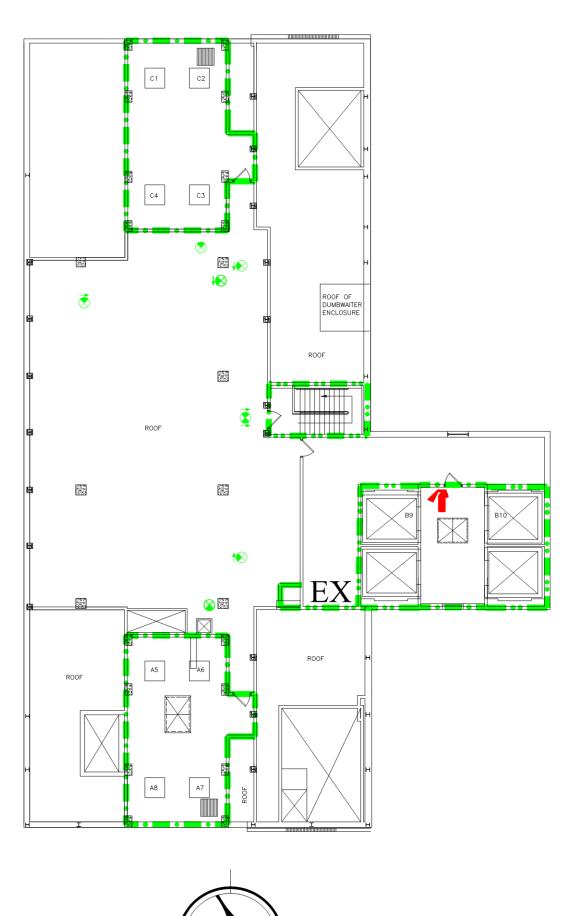




BUILDING 111 ELEVENTH FLOOR

(ELEVATOR PENTHOUSE-B WING)

FULLY SPRINKLERED INDUSTRIAL OCCUPANCY

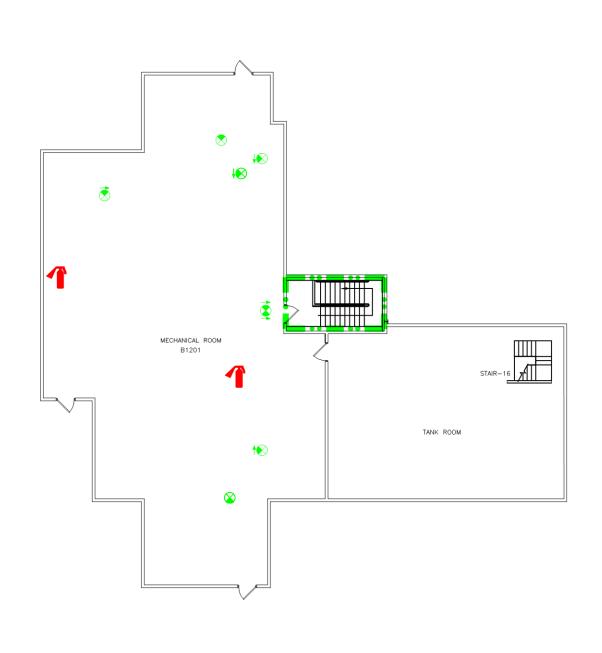


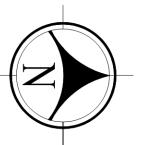


BUILDING 111 TWELFTH FLOOR

(ELEVATOR PENTHOUSE MACHINE ROOMS-B WING)

FULLY SPRINKLERED INDUSTRIAL OCCUPANCY





BUILDING 111 THIRTEENTH FLOOR

FULLY SPRINKLERED INDUSTRIAL OCCUPANCY

SYMBOLS LIST

2 HOUR FIRE BARRIER

1 HOUR FIRE BARRIER

HOUR FIRE/SMOKE BARRIER

1 HOUR FIRE/SMOKE BARRIER 30 MINUTE SMOKE BARRIER

SMOKE RESISTIVE HAZARDOUS AREA

HORIZONTAL EXIT PASSAGEWAY

EXIT PASSAGEWAY

LINEN CHUTE TRASH CHUTE

one eighth inch = one foot

0 4 8 16

VA FORM 08-6231

SUITE DESIGNATIONS

AREA OPEN TO CORRIDOR - WITH SMOKE DETECTION

Date

AREA OPEN TO CORRIDOR - NO SMOKE DETECTION REQUIRED

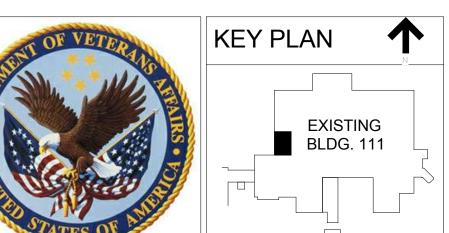
BID SET

100% SUBMITTAL 10/8/15 Project Title Project Number Building 111 - Repair Expansion 695-13-122 Office of Tank & HVAC Piping Construction Building Number 111 and Facilities Phase 1 - Expansion Tanks & Filtration **Drawing Number** Management Milwaukee, Wisconsin

KJK

Department of Veterans Affairs

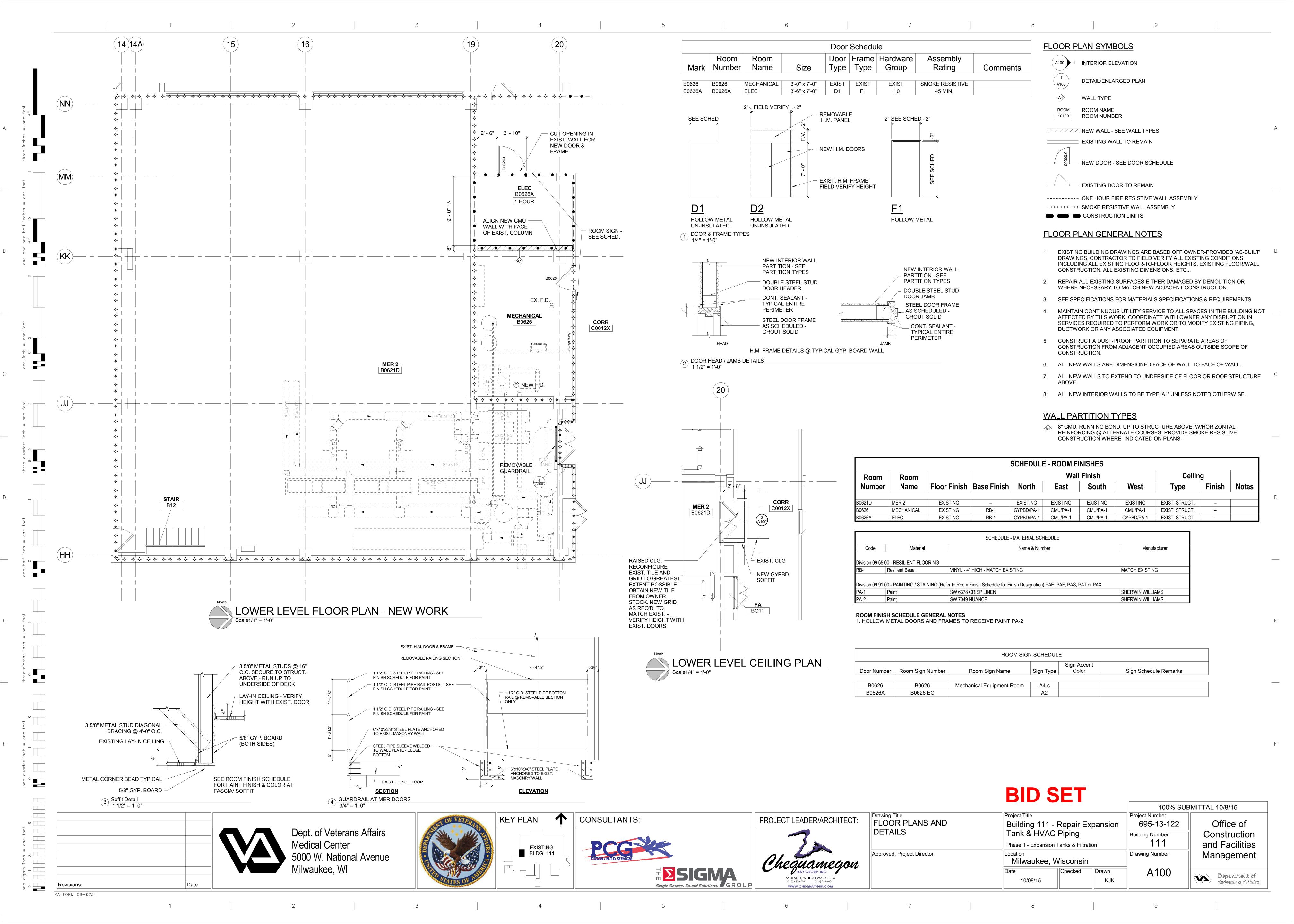
Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI

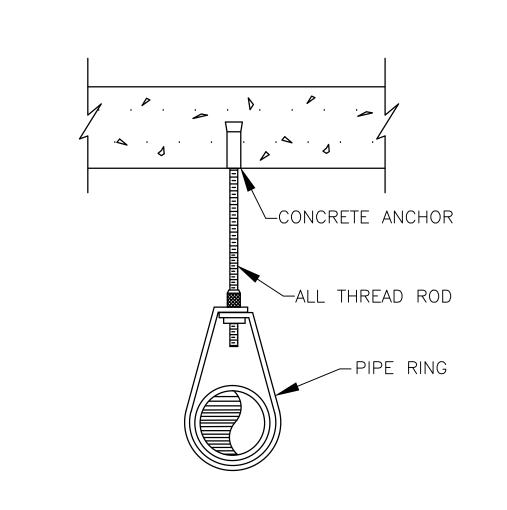




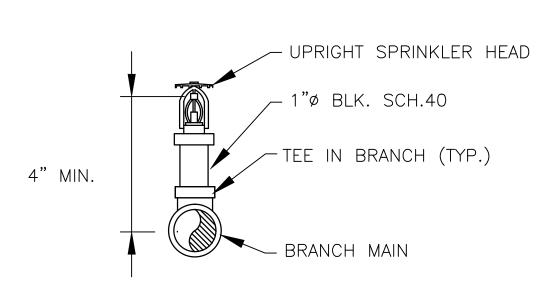


Drawing Title
PENTHOUSE FLOORS PROJECT LEADER/ARCHITECT: Approved: Project Director

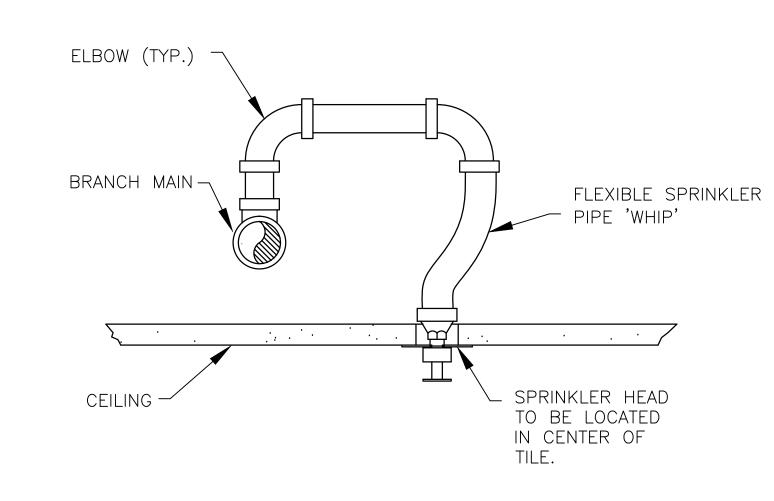








UPRIGHT SPRINKLER HEAD INSTALLATION DETAIL



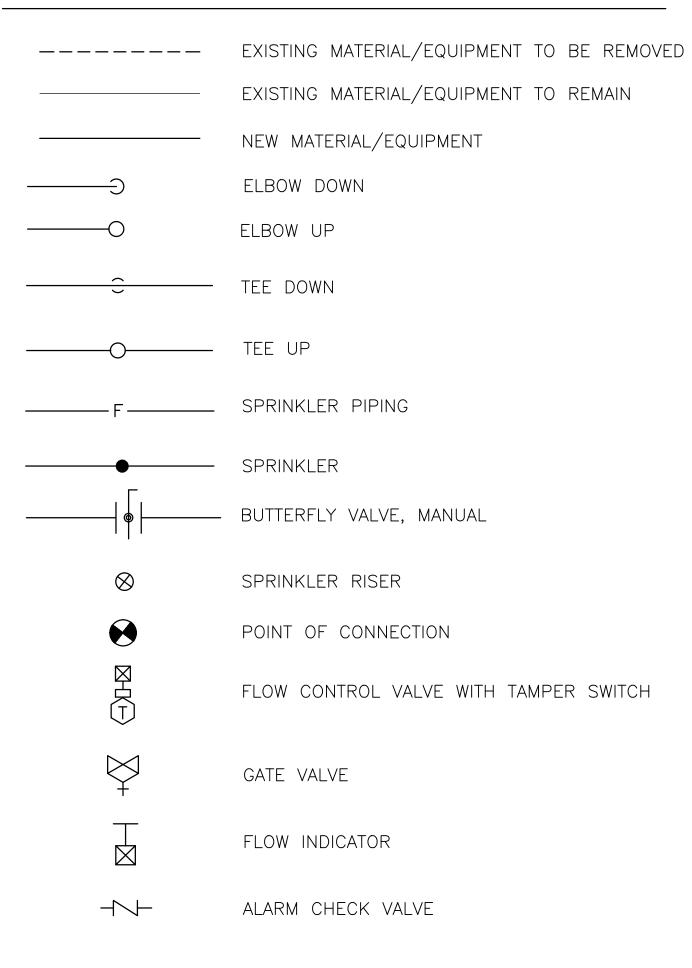
PENDANT SPRINKLER HEAD 3 INSTALLATION DETAIL
NTS

Date

Revisions:

VA FORM 08-6231

LEGEND



ABBREVIATIONS

AHJ	AUTHORITY HAVING JURISDICTION
AVG	AVERAGE
CFM	CUBIC FEET PER MINUTE
ELEV	ELEVATION
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FM	FIRE MAIN
FR	FIRE RISER
FVC	FIRE VALVE CABINET
GALS	GALLONS
GPH	GALLONS PER HOUR
GV	GATE VALVE
MAX	MAXIMUM
MIN	MINIMUM
NP	NOT PERMITTED
NC	NONCOMBUSTIBLE
OS&Y	OUTSIDE SCREW AND YOKE
PSIG	POUNDS PER SQUARE INCH GAUGE

SOLENOID VALVE

SQUARE FEET

VALVE

VLV

ABOVE FINISHED FLOOR

FIRE ALARM SYMBOLS

 \square WALL MOUNTED HORN/STROBE. MOUNT 7'-6" AFF. WALL MOUNTED STROBE ONLY. MOUNT 7'-6" AFF

FIRE ALARM PULL STATION

CEILING MOUNTED STROBE ONLY.

FIRE DETECTOR; LETTER INDICATES AS FOLLOWS:

BLANK-SMOKE DETECTOR

H-HEAT SMOKE

I-IONIZATION SMOKE

P-PHOTOELECTRIC SMOKE

IH-IONIZATION AND HEAT SMOKE

IP-IONIZATION AND PHOTOELECTRIC SMOKE

PH-PHOTOELECTRIC AND HEAT SMOKE

IPH-IONIZATION, PHOTOELECTRIC, AND HEAT

FIRE SUPPRESSION GENERAL NOTES

- 1. FIRE SPRINKLER CONTRACTOR SHALL PROVIDE A HYDRAULICALLY CALCULATED, WET PIPE SPRINKLER SYSTEM WITHIN THE SUITE. SECURE AND PAY FOR ALL NECESSARY PERMITS AND INSPECTIONS.
- 2. THE HYDRAULIC CALCULATIONS AND SYSTEM SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE SECTIONS OF THE NFPA STANDARDS VERIFIED BY ACTUAL TEST AT THE SITE, THE AVAILABLE WATER FLOW RATE. AND THE RESIDUAL PRESSURE. WHEN SUBMITTING SHOP DRAWINGS. INCLUDE COPIES OF WATER SYSTEM TEST REPORTS AND ALL HYDRAULIC CALCULATIONS WITH SYSTEM CURVES. INDICATE LOCATION OF WATER FLOWS AND PRESSURE TESTS, AND SHOW THESE TEST RESULTS AS BASIS FOR THE CALCULATIONS.
- 3. FIRE SPRINKLER WORK SHALL INCLUDE CONNECTION TO EXISTING MAIN, WITH ALL REQUIRED DEVICES, INCLUDING DETECTOR CHECK VALVE, AND MISCELLANEOUS EQUIPMENT AS REQUIRED.
- 4. COORDINATE LOCATION OF ALL MAINS, LATERALS AND PENDANT DROPS WITH MECHANICAL DRAWINGS AND REFLECTED CEILING PLANS. PROVIDE TWO COMPLETE SETS OF SHOP DRAWINGS. STAMPED BY THE FIRE PROTECTION AUTHORITY, TO THE CONSTRUCTION MANAGER PRIOR TO FABRICATION OR INSTALLATION OF THE SPRINKLER SYSTEMS.
- 5. SPRINKLER PIPING SHALL BE CONCEALED ABOVE CEILING FINISHED AREAS AND SPRINKLER HEADS SHALL BE CHROME-PLATED. PIPING IN OTHER AREAS MAY BE EXPOSED AND SPRINKLER HEADS UPRIGHTS OR PENDANT TYPE, AS REQUIRED, NATURAL FINISH. THE GENERAL SPRINKLER PIPING SHALL BE INSTALLED AT MAXIMUM HEIGHT THROUGHOUT THE BUILDING STRUCTURE.
- 6. PROVIDE SEISMIC BRACING AS REQUIRED TO MEET LOCAL CODES. PENDANT DROPS SHALL BE ADEQUATELY SUPPORTED/BRACED FROM STRUCTURE TO PREVENT PIPING FROM MOVING.
- 7. COORDINATE WITH SPECIFICATIONS FOR MATERIALS, VALVES, EQUIPMENT, ETC.
- 8. PRIOR TO CONNECTING THE OVERHEAD SPRINKLER PIPING, FLUSH UNDERGROUND MAIN AND STANDPIPE CONNECTIONS IN THE PRESENCE OF A REPRESENTATIVE OF THE OWNERS INSURANCE AND /OR THE LOCAL REGULATORY AGENCY AND MEET WITH THEIR APPROVAL.
- 9. HYDRAULICALLY TEST THE FIRE SPRINKLER SYSTEM BEFORE AND AFTER INSTALLATION, IN THE PRESENCE OF THE LOCAL FIRE MARSHAL AND PROVE TO BE TIGHT. UPON COMPLETION OF THE FIRE SPRINKLER SYSTEM. SUBMIT CERTIFICATE WHICH INDICATES THAT THE WORK HAS BEEN FLUSHED AND TESTED IN ACCORDANCE WITH NFPA 13 AND 14 AND THAT THE SYSTEM IS OPERATIONAL, COMPLETE, AND HAS NO DEFECTS.
- 10. FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY EXACT CONNECTION LOCATION TO THE EXISTING SPRINKLER SYSTEM OF ADEQUATE SIZE SUPPLY MAIN FOR THE REMODELED AREA.
- 11. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULES AS PER SPEC SECTION 010110 SN-SPECIAL NOTES. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
- 12. HOT WORK SEE SPECIFICATION SECTIONS 01 01 10 SN SPECIAL NOTES AND 01 35 26 SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
- 13. WORK HOURS:

DAYTIME - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.

8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.

WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

FIRE SUPPRESSION CODE SUMMARY

APPLICABLE PORTIONS OF THE FOLLOWING NATIONAL CODES AND STANDARDS SHALL BE

REFERENCED:

INTERNATIONAL BUILDING CODE, 2009 EDITION.

- INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2009 EDITION
- VA FIRE PROTECTION DESIGN MANUAL
- NATONAL FIRE PROTECTION ASSOCIATION, NFPA 101, LIFE SAFETY CODE (LSC), 2009 EDITION.
- NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2010 EDITION.
- NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS, 2010 EDITION.
- NFPA 70, NATIONAL ELECTRICAL CODE, 2011 EDITION.
- NFPA 72, NATIONAL FIRE ALARM CODE, 2010 EDITION.
- NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2010 EDITION.
- NFPA 90A, STANDARD FOR THE INSTALLATION OF AIR—CONDITIONING AND VENTILATING SYSTEMS, 2009 EDITION.
- NFPA 101
- NFPA 110, STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS, 2010 EDITION.
- ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS)

OCCUPANCY CLASSIFICATION

PER INTERNATIONAL BUILDING CODE, CHAPTER 3: • USE GROUP CLASSIFICATION = INSTITUTIONAL, GROUP I-2 (INCLUDES OFFICE AREAS)

BID SET

10/08/15



Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI



CONSULTANTS: EXISTING BLDG. 111





Drawing Title LEGENDS, ABBREVIATIONS, AND SYMBOLS Approved: Project Director

Project Title Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration

100% SUBMITTAL 10/8/15 Project Number 695-13-122 Building 111 - Repair Expansion Building Number 111 Drawing Number Milwaukee, Wisconsin

EAO

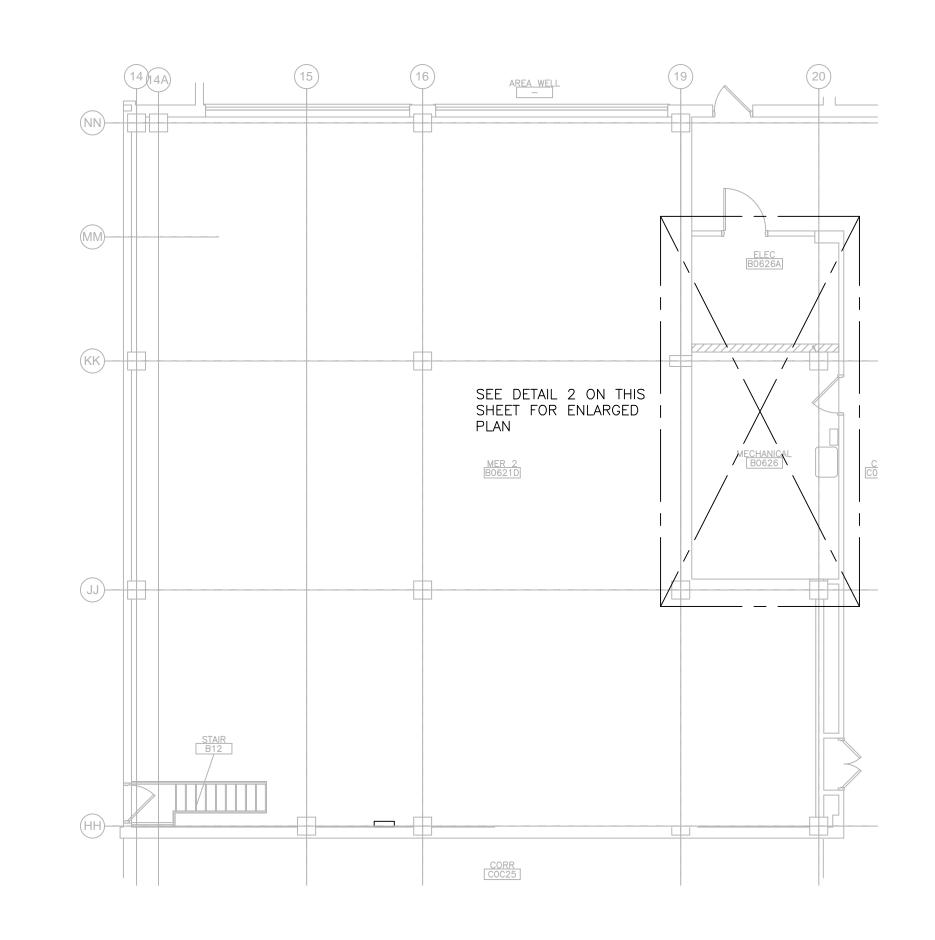
HFB

Management Department of Veterans Affairs

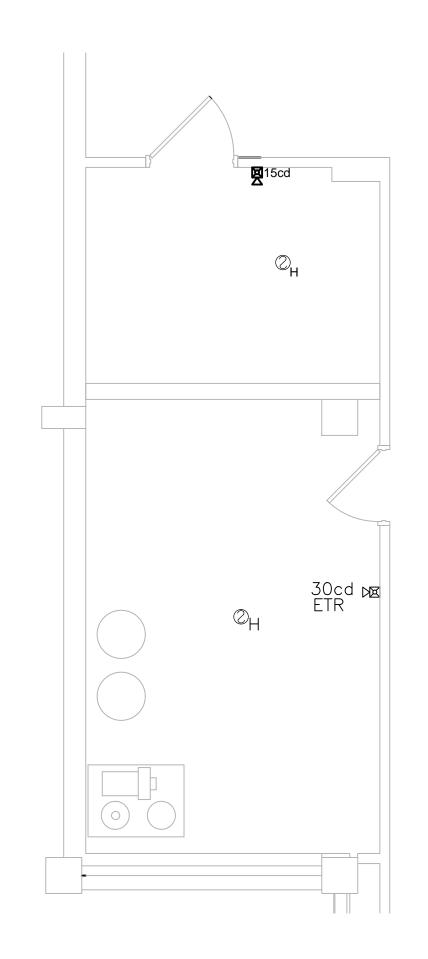
Office of

Construction

and Facilities











GENERAL NOTES

1. EXISTING FIRE PROTECTION SYSTEMS, INCLUDING FIRE ALARM SYSTEMS, SMOKE DETECTION SYSTEMS, AND SPRINKLER SYSTEM SHALL NOT BE IMPAIRED DURING CONSTRUCTION. SMOKE DETECTOR DISABLE REQUESTS.

- 2. OUTAGE REQUESTS TO BE SUMBITTED TO FM ENGINEER FOR APPROVAL FOR SPECIFIC DATE AND TIME. ALARMS WILL ONLY BE TURNED OFF FOR SPECIFIC REQUESTS AND WHEN CONSTRACTOR ARE IN THE CONSTRUCTION AREA. ALARMS WILL BE RESTORED AT THE END OF THE WORK DAY BY CALLING THE SAME EXTENSION. AT NO TIME WILL ALARMS REMAIN OFF OVERNIGHT.
- 3. SMOKE DETECTORS AND OR SPRINKLER HEADS: DO NOT COVER BY BAGS, TAPE, AND PLASTIC OR ANY OTHER MANNER THAT WILL DEFEAT THEIR ABILITY TO SENSE SMOKE OR HEAT AND OPERATE AS DESIGNED.
- 4. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULES AS PER SPEC SECTION 01 01 10 SN -SPECIAL NOTES.
- 5. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
- 6. WORK ON HEATING SYSTEMS SHALL TAKE PLACE DURING THE NON-HEATING SEASON TO REDUCE DISPRUTIONS OF HOSPITAL OPERATIONS.
- 7. <u>HOT WORK</u> SEE SPECIFICATION SECTIONS 01 01 10 SN SPECIAL NOTES AND 01 35 26 SAFETY REQUIREMENTS FOR ALL HOT WORK.
- 8. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.
- 9. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR.

10. WORK HOURS:

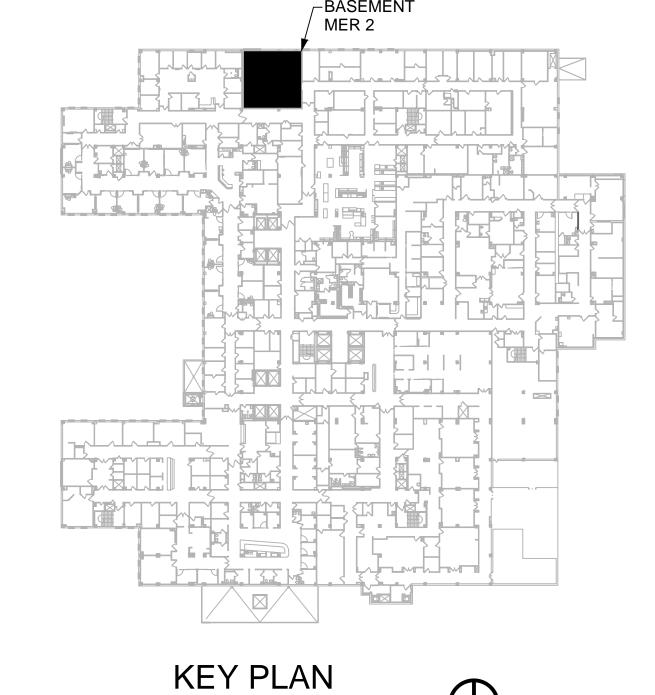
<u>DAYTIME</u> - NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.

8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.

<u>WEEKENDS</u> — WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE / CRANES.

KEYED NOTES

- EC SHALL RELOCATE DISCONNECT AND EXTEND WIRING AND CONDUIT TO NEW LOCATION FOR AC TECH INTELLIGENT DRIVE.
- 2 EC SHALL REMOVE AND TURN OVER TO VA EXISTING CAMERA.
- $\overline{3}$ EC SHALL REPLACE EXISTING TIMER LIGHT SWITCH WITH NON AUTOMATIC TOGGLE SWITCH.





BID SET

10/08/15

Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration Milwaukee, Wisconsin

100% SUBMITTAL 10/8/15 Project Number 695-13-122 Office of Construction Building Number 111 and Facilities Drawing Number Management

FA100 Checked Drawn TM DMW

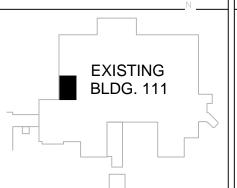
Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI

one eighth inch = one foot

0 4 8 16

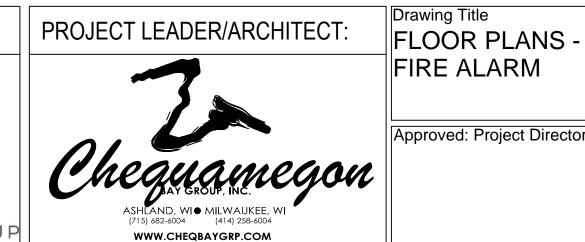
VA FORM 08-6231







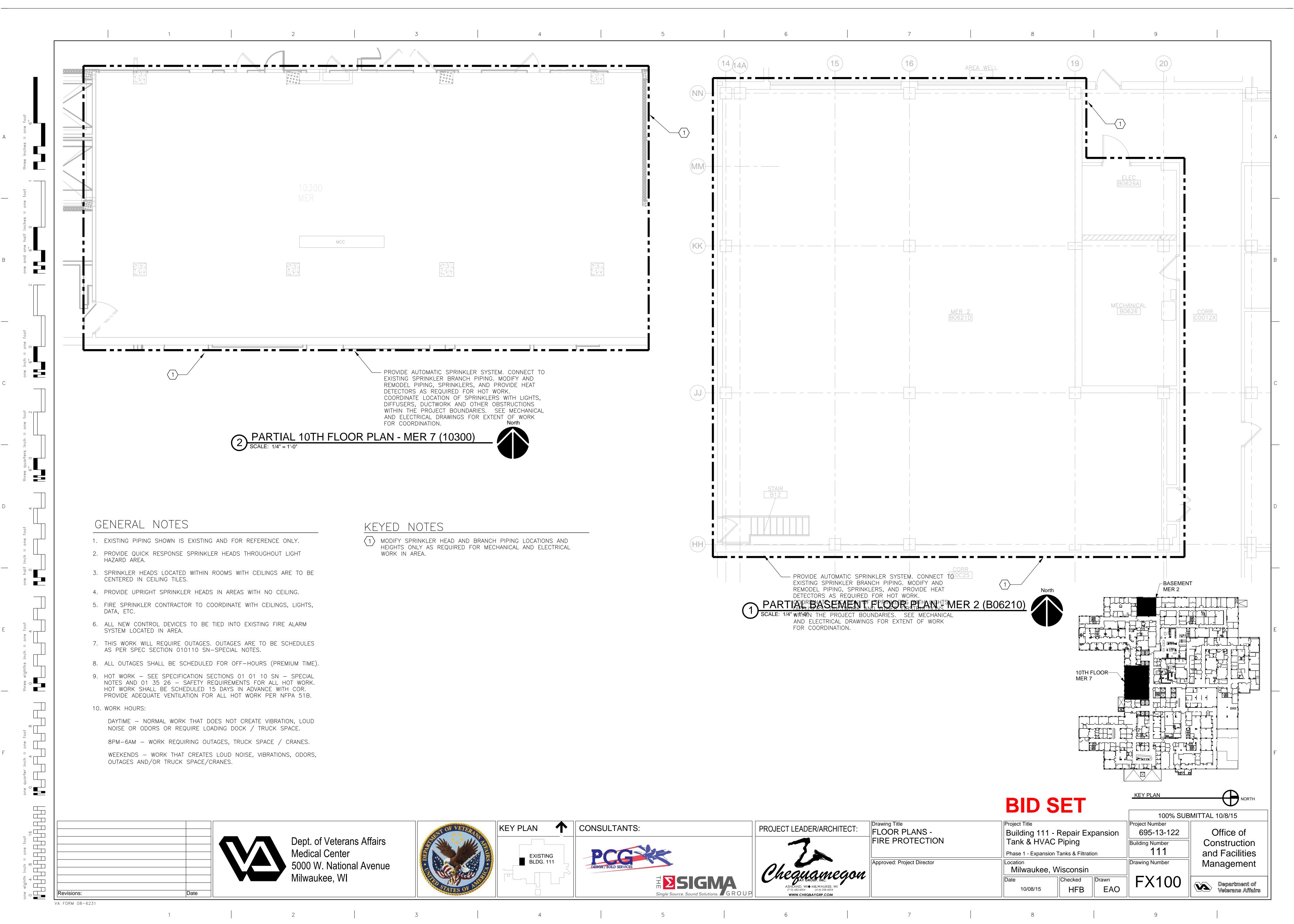
CONSULTANTS:

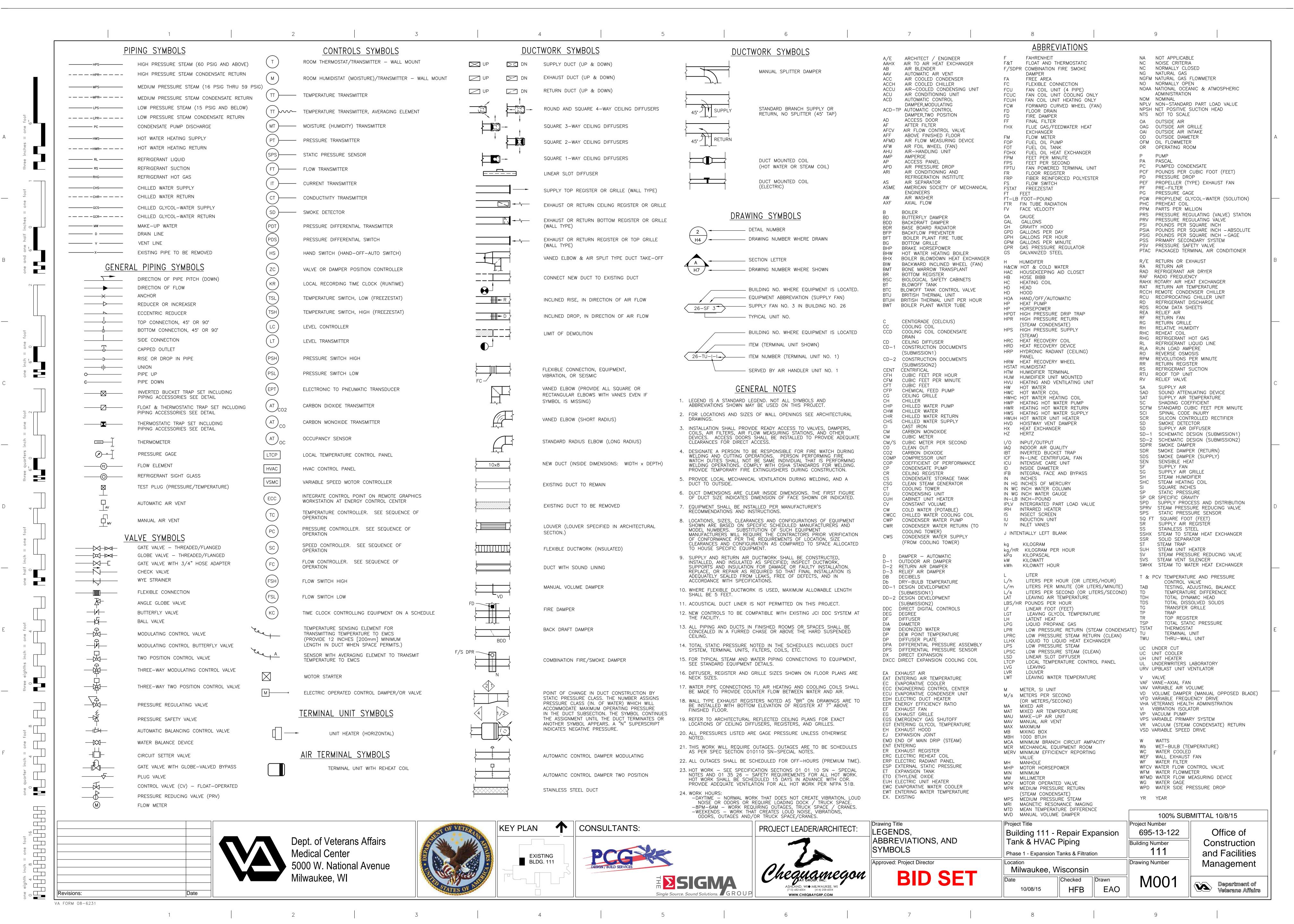


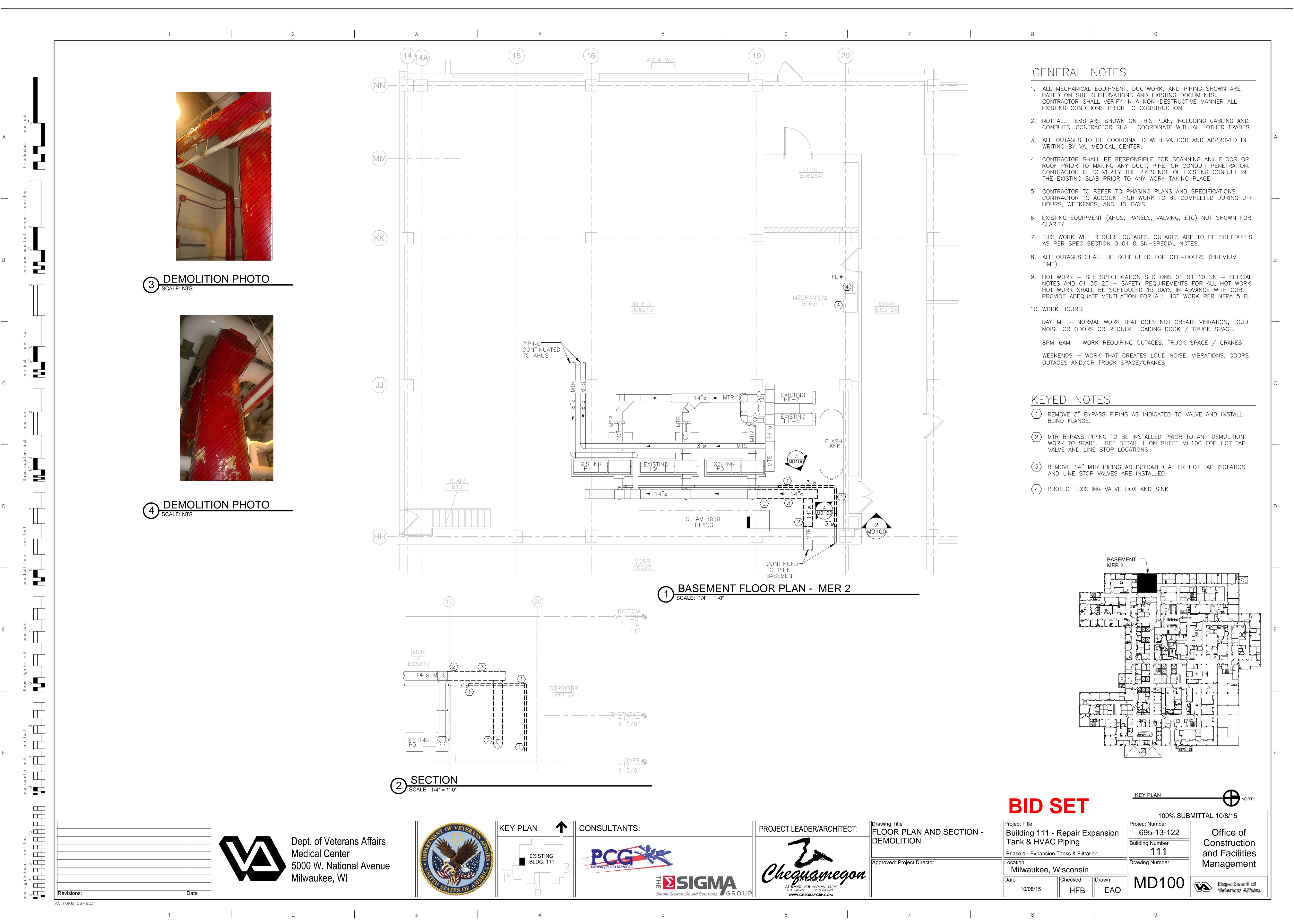
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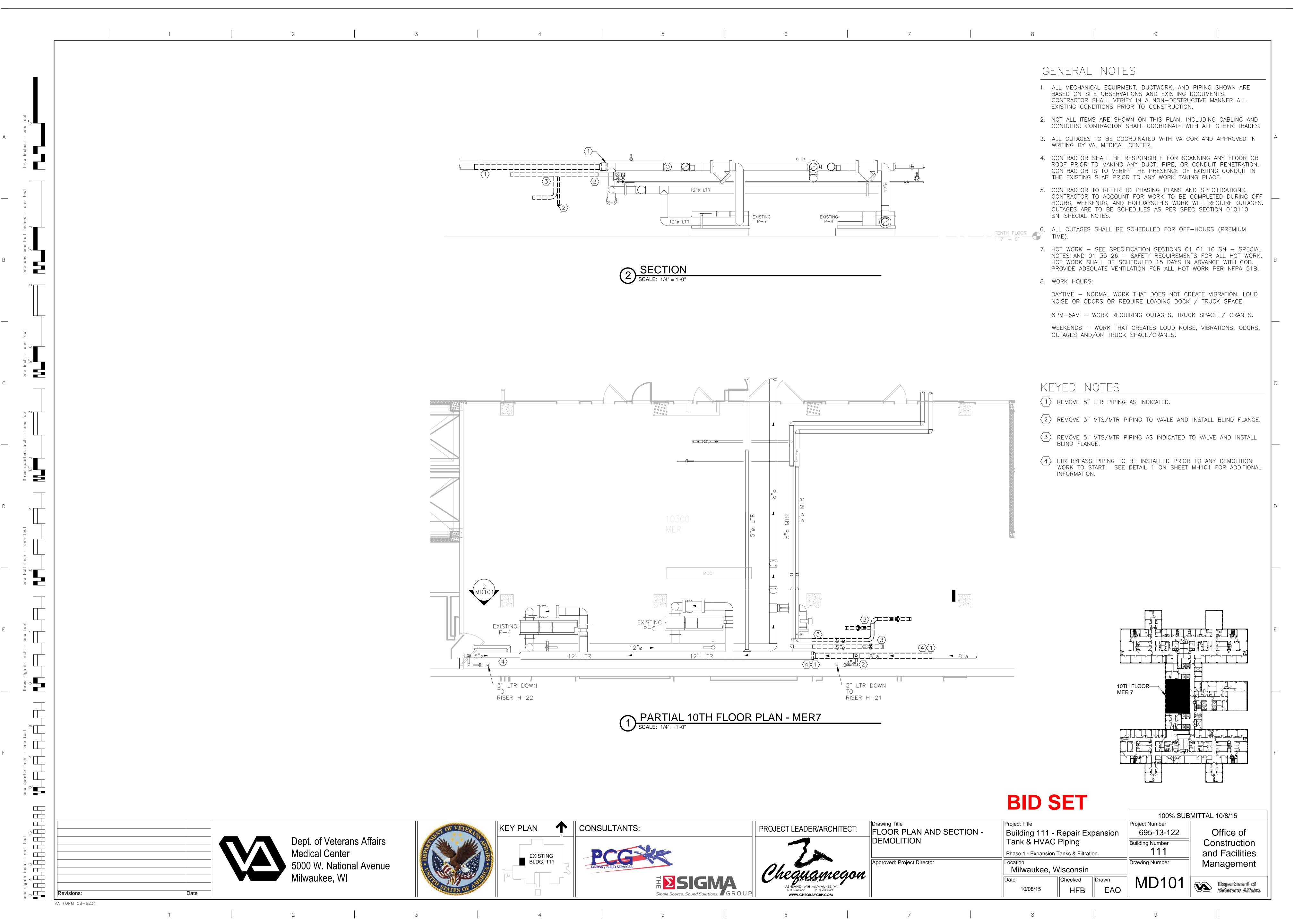
WWW.CHEQBAYGRP.COM

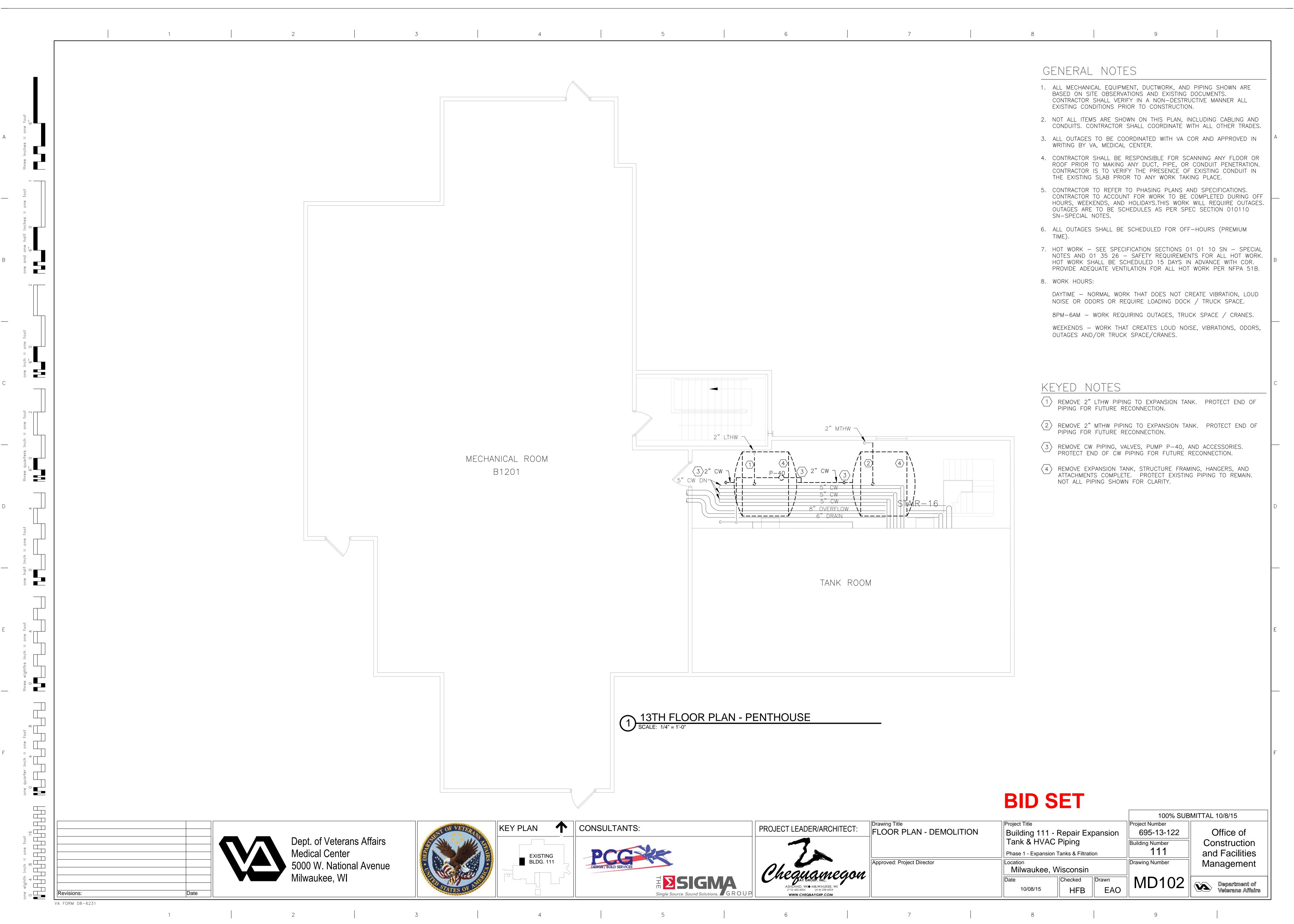
Department of Veterans Affairs

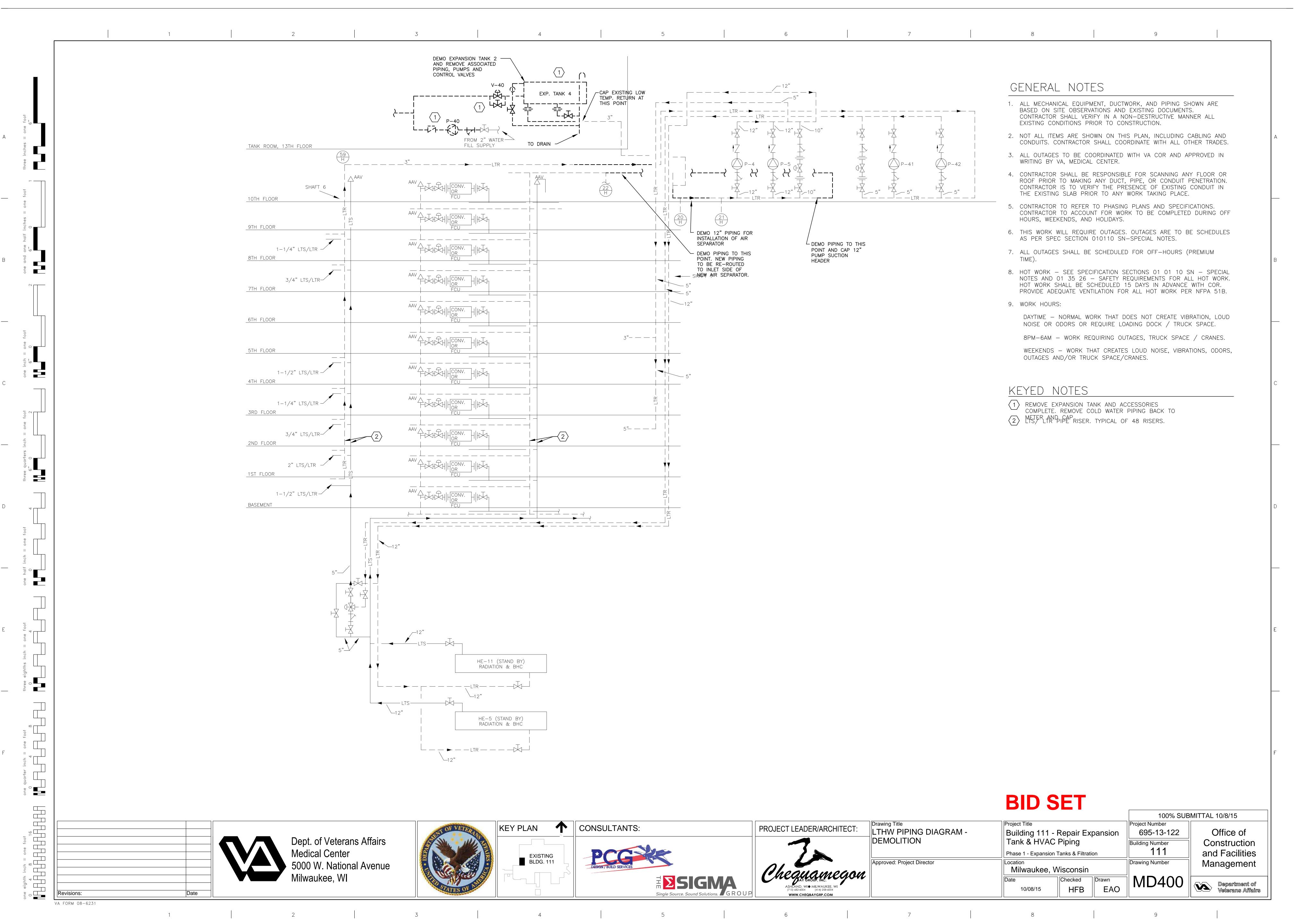


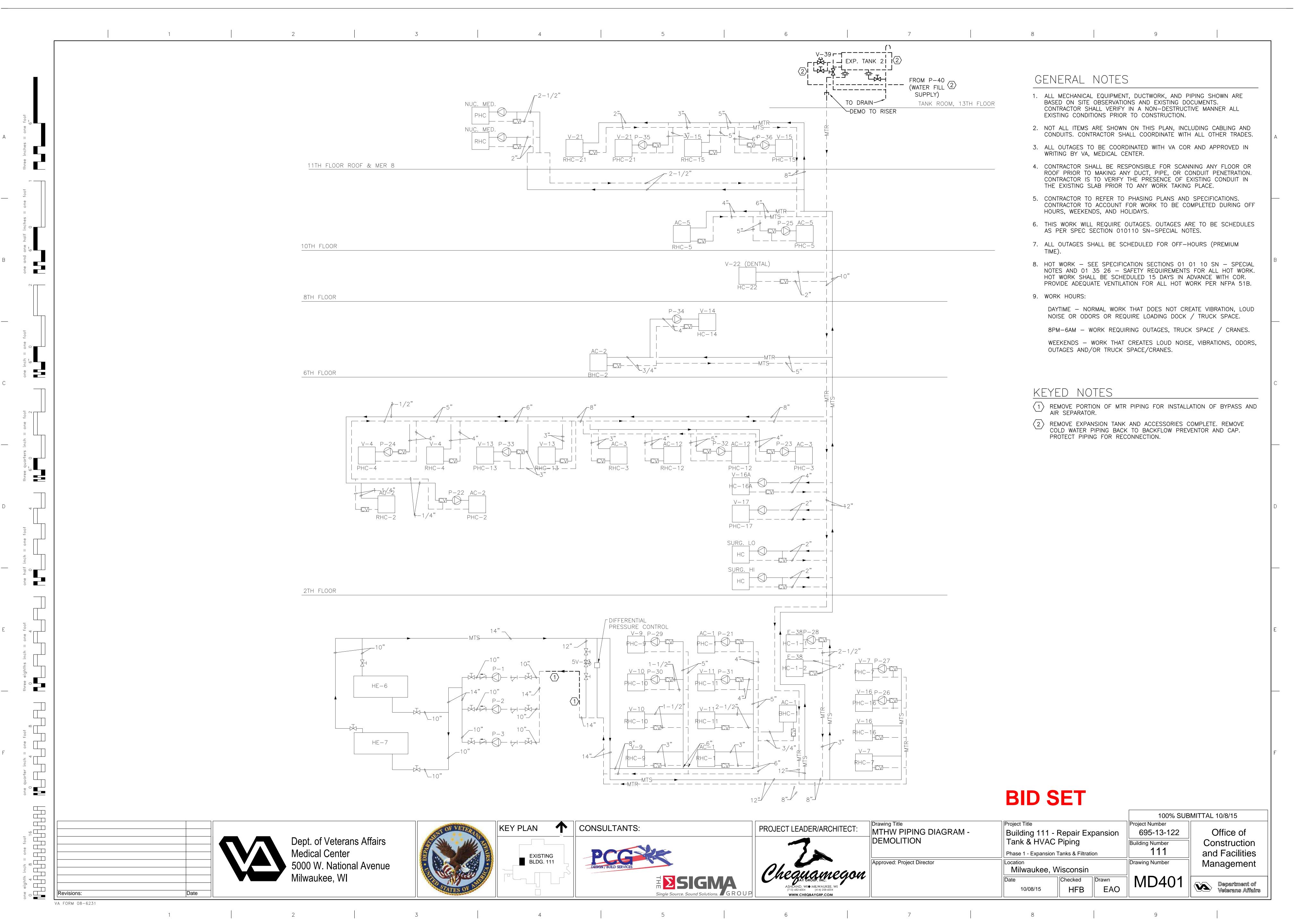


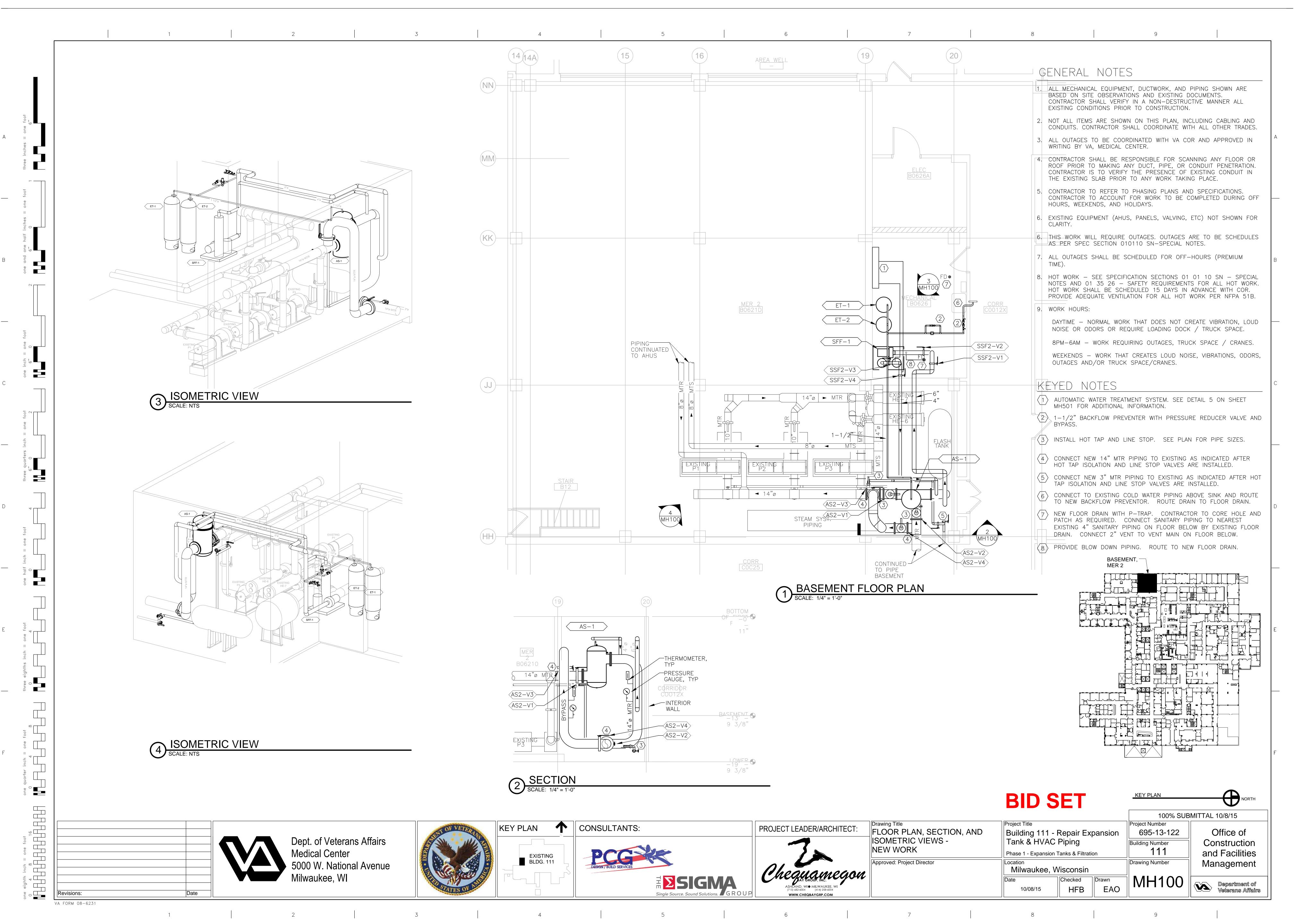


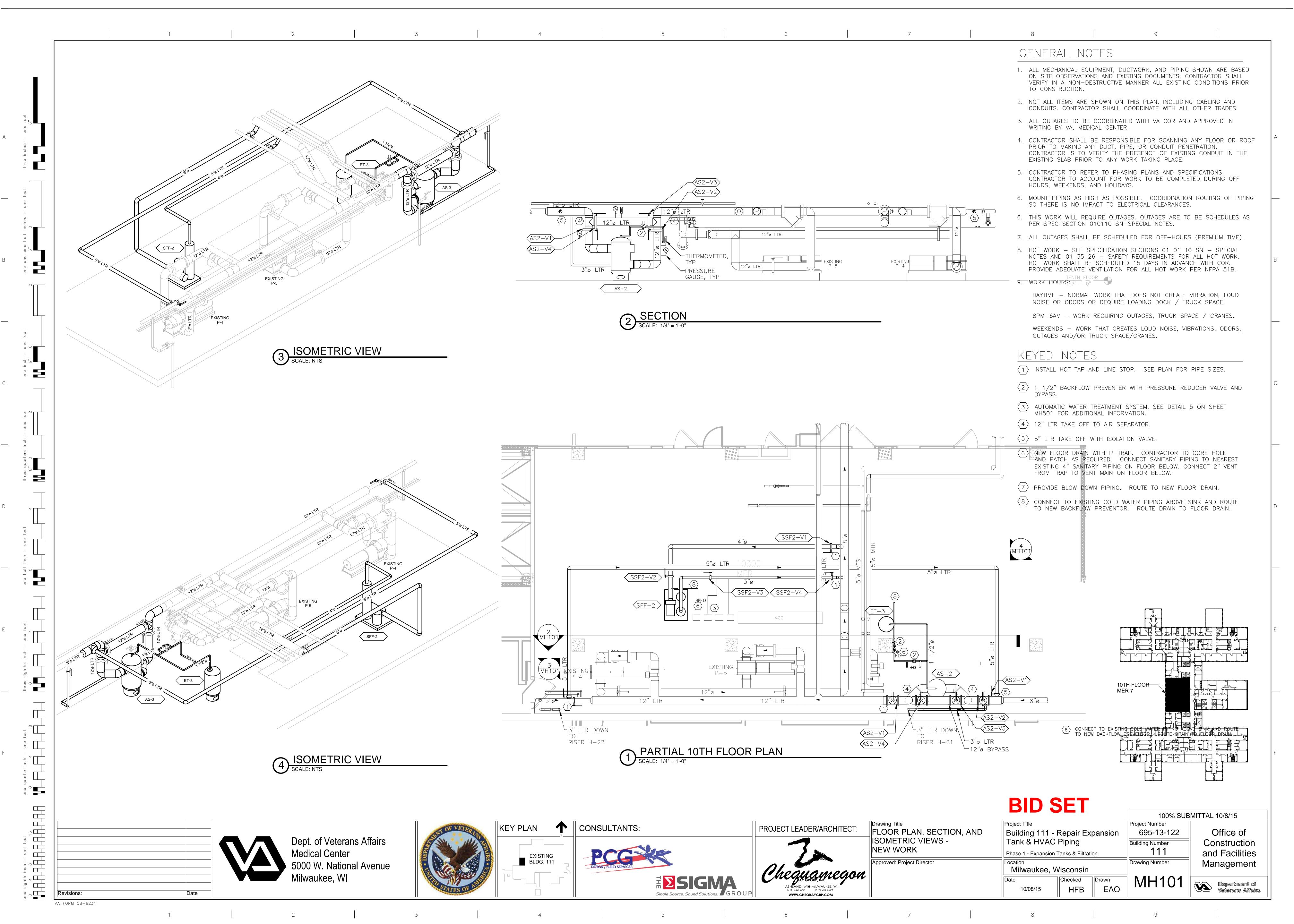


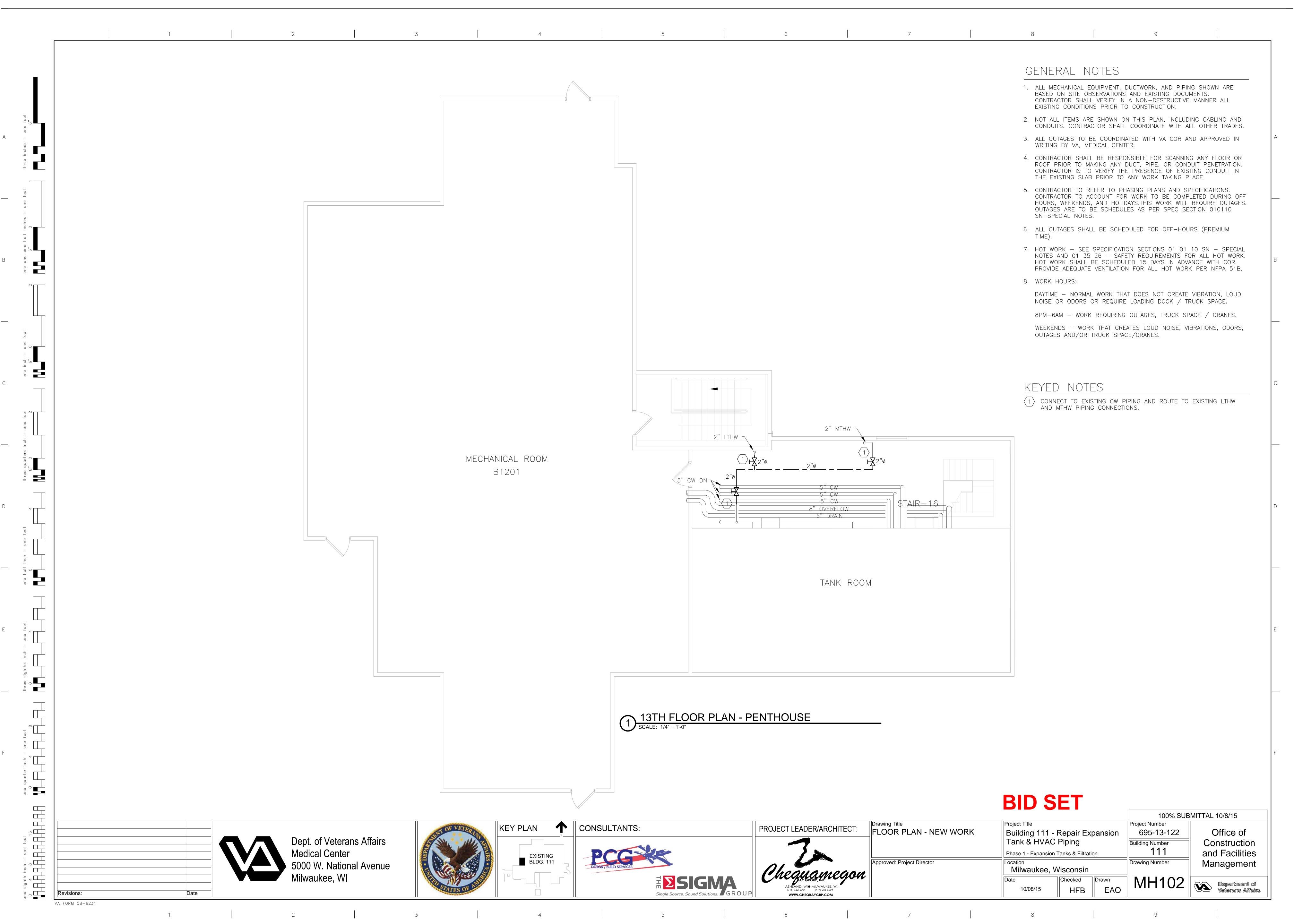


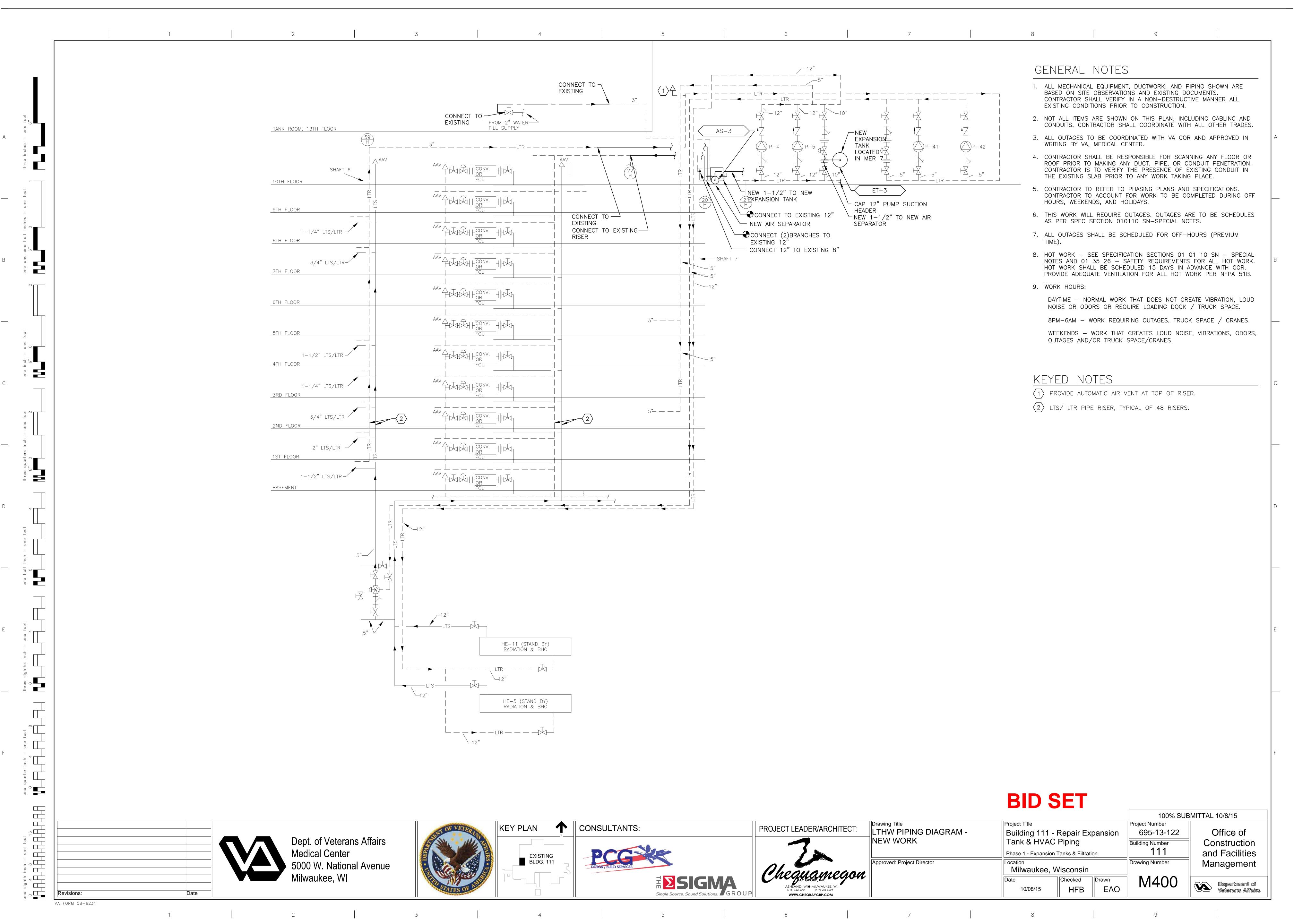


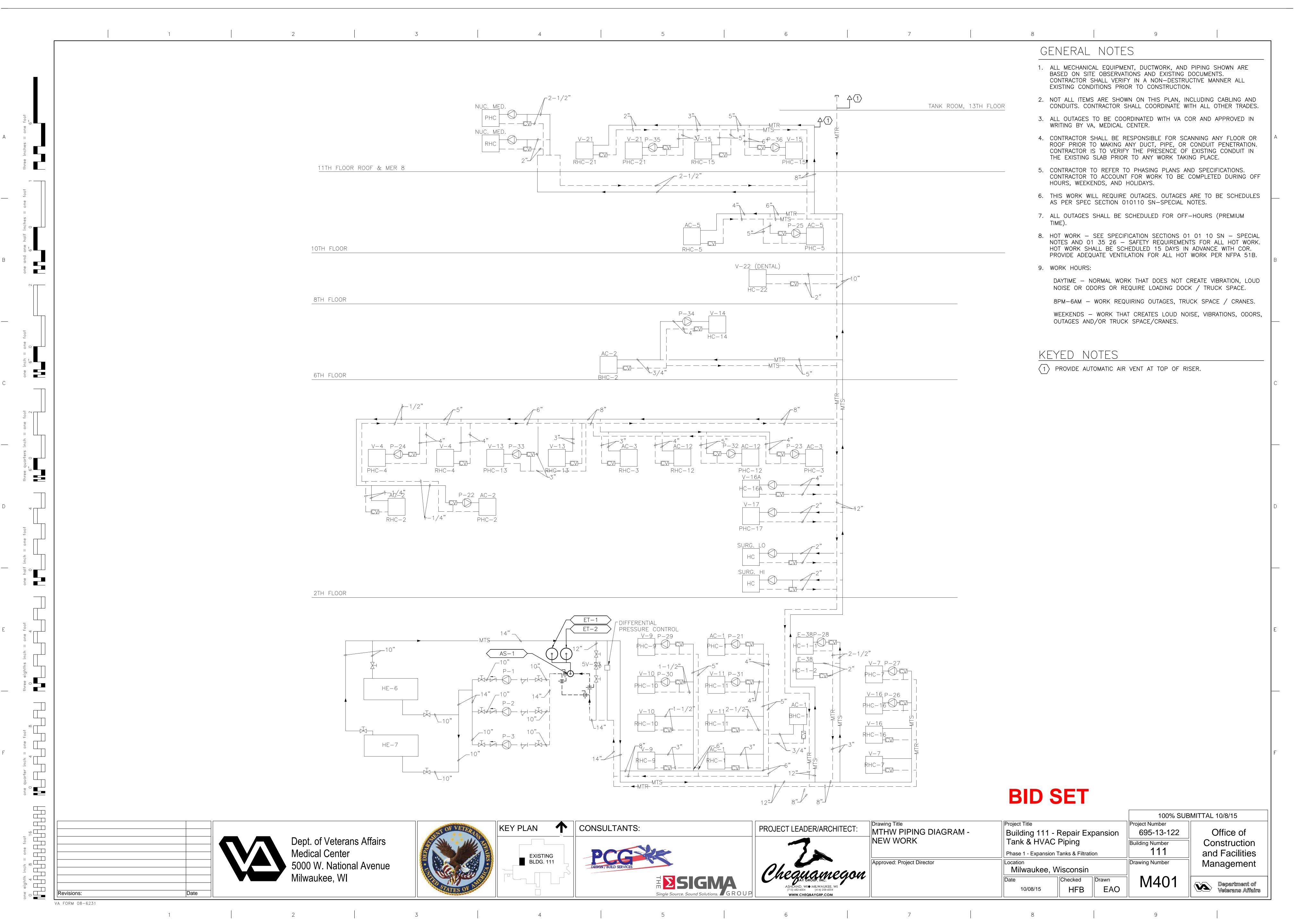


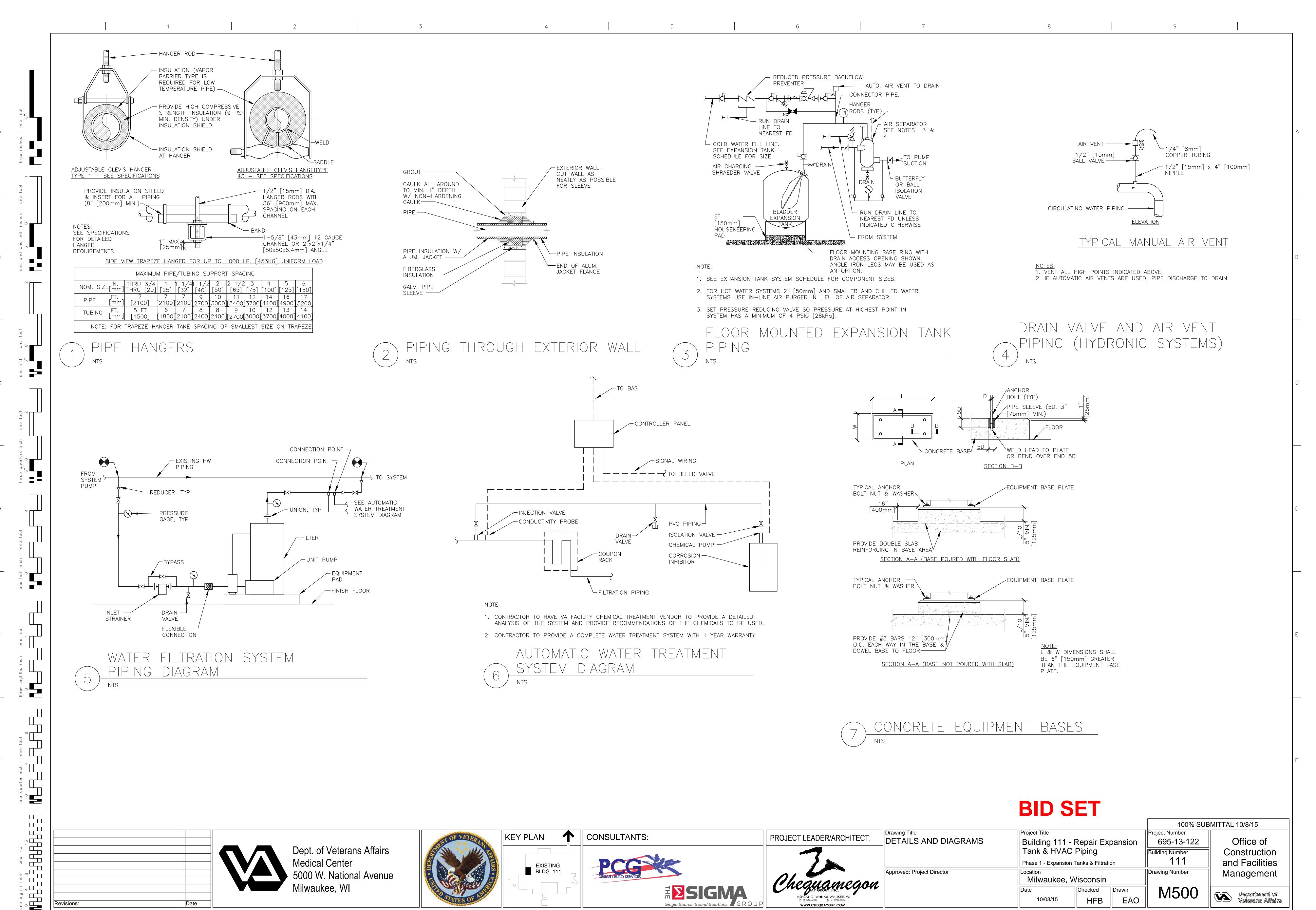












VA FORM 08-6231

AIR SEPARATOR SCHEDULE (AS-)

					,	
	PIPE CO	ONNECT.				
TAG	INLET (IN)	OUTLET (IN)	FLOW (GPM)	WPD (FT)	NOTES	
AS-1	14	14	3800	3	_	
AS-2	10	10	1900	2	_	

NOTE: 1. BASIS OF DESIGN: BELL & GOSSETT, MODEL R.

EXPANSION	TANK	SCHEDULE	(ET-)	
-----------	------	----------	-------	--

							OPER	PRESS	OPER	R TEMP	
TAG	LOCATION	SERVING	HEIGHT (IN)	DIAM (IN)	TANK VOL (GAL)	MIN VOL (GAL)	DESIGN PSIG	MAX PSIG	DESIGN (°F)	MAX (°F)	NOTES
ET-1	MER 2	MTHW	72	24	112	61	91	125	180	200	_
ET-2	MER 2	MTHW	72	24	112	61	91	125	180	200	_
ET-3	MER 7	LTHW	68	30	160	100	91	125	180	200	_
	•	•	•		'	<u>'</u>		1	•		•

one eighth inch = one foot

0 4 8 16

Revisions:

VA FORM 08-6231

BASIS OF DESIGN: TACO, MODEL CBX425. SYSTEM VOLUME=13641 GALLONS. 2. BASIS OF DESIGN: TACO, MODEL CBX600. SYSTEM VOLUME=11841 GALLONS.

SIDE STREAM WATER FILTER SCHEDULE (SSF-)

						,						
TAG	SERVES	LOCATION	HP	VOLT/PH	FLOW (GPM)	INLET (IN)	OUTLET (IN)	FILTERATION (MICRONS)	PRESS RATING PSIG	EMPTY WEIGHT (LBS)	NOTES	
SSF-1	MEDIUM TEMP HOT WATER	MER 2	10	460/3	500	6	4	25	150	1283	_	
SSF-2	LOW TEMP HOT WATER	MER 7	5	460/3	190	4	3	25	150	567	_	

1. BASIS OF DESIGN: LAKOS, MODEL TCX-0410-EFS.

Date

- 2. SKID MOUNTED CENTRIFUGAL SIDESTREAM FILTER WITH ASSEMBLY TO INCLUDE PUMP, STRAINER, SEPARATOR, VORTUBE, AUTOMATED PURGING VALVE, PLC TIED TO BAS SYSTEM, CONTROL/INDICATOR PACKAGE FOR DETECTION OF FULL COLLECTION BASKET.
- 3. SET PURGE CYCLE INITIALLY AT 30 SEC EVERY 12 HR. AFTER ONE MONTH, BASED ON SOLIDS DISCHARGE, SET PURGE CYCLE TO 15 SEC EVERY 12 HR (ADJUSTABLE).

VALVE SCHEDULE (CV-)

TAG	SYSTEM	TYPE	FLOW (GPM)	SIZE (IN)	NOTES
AS1-V1	AS-1	ISOLATION VALVE	3800	14	_
AS1-V2	AS-1	ISOLATION VALVE	3800	14	_
AS1-V3	MTHW BYPASS	ISOLATION VALVE	3800	14	_
AS1-V4	MTHW BYPASS	ISOLATION VALVE	3800	14	_
AS2-V1	AS-2	ISOLATION VALVE	1900	10	_
AS2-V2	AS-2	ISOLATION VALVE	1900	10	_
AS2-V3	LTHW BYPASS	ISOLATION VALVE	1900	10	_
AS2-V4	LTHW BYPASS	ISOLATION VALVE	1900	10	_
SSF1-V1	SSF-1	ISOLATION VALVE	380	6	_
SSF1-V2	SSF-1	ISOLATION VALVE	380	6	_
SSF1-V3	SSF-1	ISOLATION VALVE	380	4	_
SSF1-V4	SSF-1	ISOLATION VALVE	380	4	_
SSF2-V1	SSF-2	ISOLATION VALVE	190	4	_
SSF2-V2	SSF-2	ISOLATION VALVE	190	4	_
SSF2-V3	SSF-2	ISOLATION VALVE	190	3	_
SSF2-V4	SSF-2	ISOLATION VALVE	190	3	_

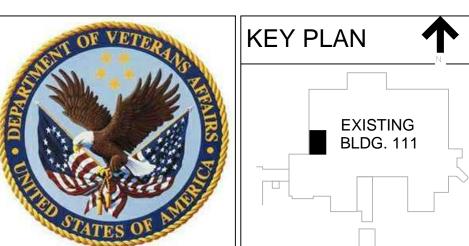
- 1. THE VALVE SCHEDULE IS INTENDED TO BE A MINIMUM LIST OF VALVES. ADDITONAL VALVES MAYBE REQUIRED BY MANUFACTURERS RECOMMENDATION. CONTRACTOR IS RESPONSIBLE TO VERIFY AND INCLUDE AS REQUIRED ADDITIONAL VALVES FOR PROPER OPERATION.
- 2. SEE PLANS AND DETAILS FOR ADDITIONAL INFORMATION AND COMPONENTS.

BID SET

100% SUBMITTAL 10/8/15 Drawing Title
SCHEDULES Project Title Project Number Building 111 - Repair Expansion Tank & HVAC Piping Office of 695-13-122 Construction Building Number 111 and Facilities Phase 1 - Expansion Tanks & Filtration Approved: Project Director Drawing Number Management Milwaukee, Wisconsin M600 EAO HFB 10/08/15

Department of Veterans Affairs

Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI





PROJECT LEADER/ARCHITECT: Chegicalegou ASHLAND, WI • MILWAUKEE, WI (715) 682-6004 (414) 258-6004 WWW.CHEQBAYGRP.COM

Single Source. Sound Solutions. GROUP

ABBREVIATIONS

ADA AMERICAN WITH DISABILITY ACTS MECHANICAL CONTRACTOR AMPERE FRAME MAIN CIRCUIT BREAKER ABOVE FINISHED FLOOR MDP MAIN DISTRIBUTION PANEL ALTERNATE MANHOLE ATS AUTOMATIC TRANSFER SWITCH MINIMUM AV AUDIO VISUAL MAIN LUGS ONLY BLDG BUILDING MAIN PANEL CIRCUIT BREAKER N/A NOT APPLICABLE NFD NON-FUSED DISCONNECT COMMUNITY LIVING CENTER NFSS NON-FUSED SAFETY SWITCH CLG CEILING CRITICAL POWER NIC NOT IN CONTRACT CT CURRENT TRANSFORMER NIGHT LIGHT DWG DRAWING NORMAL POWER NTS NOT TO SCALE ELECTRICAL CONTRACTOR EWC ELECTRIC WATER COOLER OFCI OWNER FURNISHED CONTRACTOR INSTALLED EX EXISTING OFOI OWNER FURNISHED OWNER INSTALLED FACP FIRE ALARM CONTROL PANEL PULL BOX FCU FAN COIL UNIT SPC PLUMBING CONTRACTOR GAZEBO PHASE GENERAL CONTRACTOR PNL PANEL POC POINT OF CONNECTION GEN GENERATOR GFCI GROUND FAULT CIRCUIT INTERRUPTER PWR POWER RE RESIDENT ENGINEER GROUND FAULT INTERRUPTER GND GROUND RCPT RECEPTACLE GRC GALVANIZED RIGID CONDUIT SDE SERVICE DISTRIBUTION ENCLOSURE SPEC SPECIFICATION HANDHOLE TELECOMMUNICATION CLOSET HOA HAND OFF AUTOMATIC TELEPHONE HORSE POWER JUNCTION BOX TAMPER SWITCH TELEVISION KILOVOLT KILOVOLT-AMPERES TYP TYPICAL UNIT HEATER KILOWATTS KWH KILOWATT HOURS UNO UNLESS NOTED OTHERWISE LOCAL AREA NETWORK UPS UNINTERRUPTED POWER SUPPLY LIFT STATION VOLTAGE VFD VARIABLE FREQUENCY DRIVE LTG LIGHT / LIGHTING LOW VOLTAGE WP WEATHERPROOF LVS LOW VOLTAGE SYSTEM XFMRTRANSFORMER

SHEET SYMBOLS

DETAILS AND SECTIONS DESIGNATION

REVISION NUMBER DESIGNATION

NOTE DESIGNATION

MOTOR DESIGNATION

DISCONNECT SWITCH

EQUIPMENT TAG

SUSPENDED LIGHTING FIXTURE

SPECIAL OUTLET, SEE EQUIPMENT SCHEDULE

DETECTOR: LETTER INDICATES AS FOLLOWS
BLANK = SMOKE DETECTOR
H = HEAT DETECTOR

#cd FIRE ALARM SPEAKER/STROBE, CANDELAS AS INDICATED

CR DOOR CARD READER

JUNCTION BOX

PANELBOARD

BID SET

100% SUBMITTAL 10/8/15 Project Title Drawing Title Project Number CONSULTANTS: KEY PLAN PROJECT LEADER/ARCHITECT LEGEND, ABBREVIATIONS, Office of Building 111 - Repair Expansion 695-13-122 SYMBOLS, AND ABBREVIATIONS Tank & HVAC Piping Building Number Construction 111 and Facilities Phase 1 - Expansion Tanks & Filtration EXISTING BLDG. 111 Approved: Project Director Drawing Number Management Milwaukee, Wisconsin Chegianegon

ASHLAND, WI • MILWAUKEE, WI

13151 282 4004

(414) 258-6004 **SIGMA** Checked Department of Veterans Affairs DMW TM 10/08/15 WWW.CHEQBAYGRP.COM

GENERAL NOTES

- 1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK SHOWN ON THESE PLANS, UNLESS OTHERWISE NOTED.
- 2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, AND ABOVE CEILING. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS, AND STORAGE ROOMS WITHOUT CEILING MAY BE EXPOSED ON BUILDING STRUCTURE.
- 3. ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES AND VA REGULATIONS.
- 4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTION REQUIREMENTS.
- 5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DOCUMENTS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
- 6. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THESE PROJECT DOCUMENTS.
- 7. PROVIDE ALL POWER WIRING INCLUDING ALL CIRCUITRY CARRYING ELECTRICAL ENERGY FROM PANELBOARD OR OTHER SOURCE THROUGH STARTERS AND DISCONNECTS TO MOTORS, PACKAGED EQUIPMENT, OR PACKAGED CONTROL PANELS. PROVIDE ALL WIRING BETWEEN CONTROL PANELS AND MOTORS. INCLUDE STARTERS, DISCONNECTS, AND OVERLOAD PROTECTION IF NOT INCLUDED IN SPECIFICATIONS. COORDINATE WITH EQUIPMENT SUPPLIER.
- 8. PROVIDE SEPARATE GREEN GROUND FOR EACH MOTOR AND EQUIPMENT CONNECTION ROUTED BACK TO INTEGRAL GROUND BUS OF ASSOCIATED PANELBOARD OR MOTOR CONTROL CENTER. GROUND CONDUCTOR SIZES PER NEC ARTICLE 250.122.
- 9. THIS CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS INCLUDING VOLTAGE, HORSEPOWER, STARTER TYPE, AND DISCONNECTING MEANS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS, DISCONNECT SWITCHES, AND STARTERS.
- 10. IN THE CASE OF CONFLICTS OR DISCREPENCIES WITHIN OR AMONG THE CONTRACT DOCUEMENTS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUALITY OF WORK, AS DETERMINED BY THE GOVEMENT, SHALL BE PROVIDED.
- 11. CONTRACTOR IS TO FIRE STOP AND SEAL ALL WALL PENETRATIONS AT THE END OF EACH WORK SHIFT. IF FIRE STOPPING CANNOT BE PERFORMED AT THE END OF WORK SHIFT THE HOLE NEEDS TO BE STUFFED WITH MINERAL WOOD INSULATION, TAGGED WITH AN ORANGE ILSM TAG INDICATING PROJECT NAME, PRIME CONTRACTOR, NAME AND PHONE NUMBER.
- 12. CONTRACTOR PERFORMING CORING, DATE HOLE IS MADE, AND DATE HOLE WILL BE FIRE STOPPED (MAXIMUM 30 DAYS LATTER)
- 13. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE SCHEDULES AS PER SPEC SECTION 010110 SN-SPECIAL NOTES.
- 14. ALL OUTAGES SHALL BE SCHEDULED FOR OFF-HOURS (PREMIUM TIME).
- 15. HOT WORK SEE SPECIFICATION SECTIONS 01 01 10 SN SPECIAL NOTES AND 01 35 26 SAFETY REQUIREMENTS FOR ALL HOT WORK. HOT WORK SHALL BE SCHEDULED 15 DAYS IN ADVANCE WITH COR. PROVIDE ADEQUATE VENTILATION FOR ALL HOT WORK PER NFPA 51B.

16. WORK HOURS:

DAYTIME — NORMAL WORK THAT DOES NOT CREATE VIBRATION, LOUD NOISE OR ODORS OR REQUIRE LOADING DOCK / TRUCK SPACE.

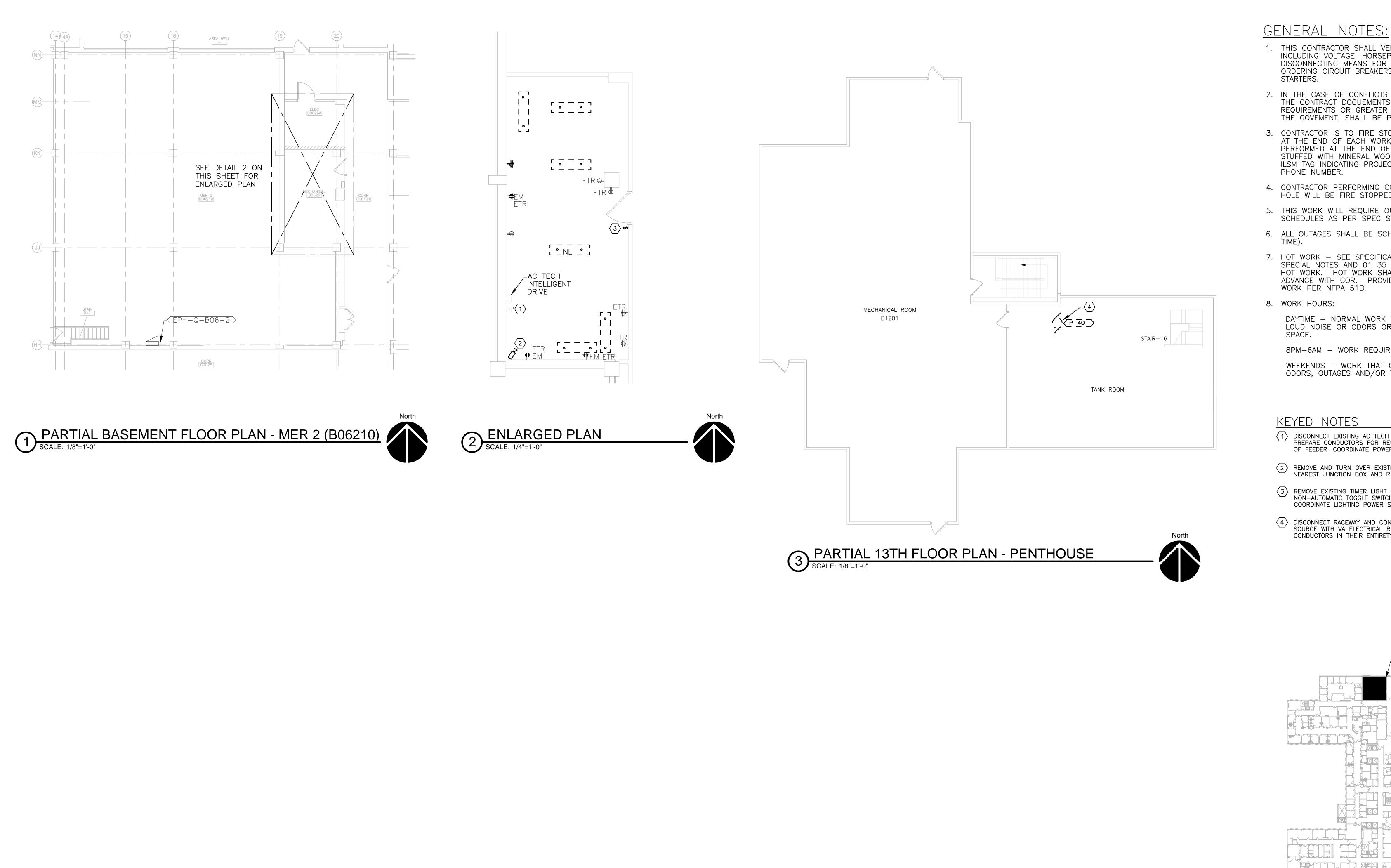
8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES.

WEEKENDS — WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

Dept. of Veterans Affairs Medical Center 5000 W. National Avenue

Milwaukee, WI

VA FORM 08-6231

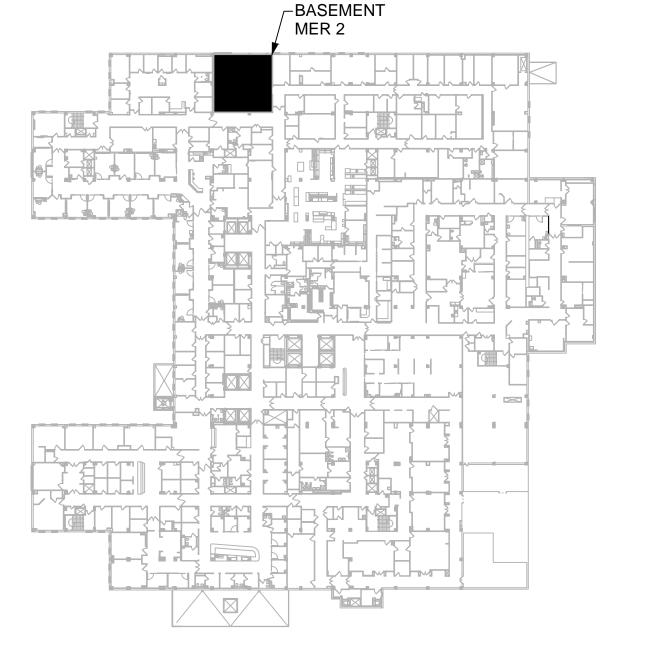


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8PM-6AM - WORK REQUIRING OUTAGES, TRUCK SPACE / CRANES. WEEKENDS - WORK THAT CREATES LOUD NOISE, VIBRATIONS, ODORS, OUTAGES AND/OR TRUCK SPACE/CRANES.

- DISCONNECT EXISTING AC TECH INTELLIGENT DRIVE AND SWITCH FOR RELOCATION. PREPARE CONDUCTORS FOR REUSE AND PROVIDE JUNCTION BOX FOR EXTENSION OF FEEDER. COORDINATE POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE.
- (2) REMOVE AND TURN OVER EXISTING CAMERA TO VA. REMOVE CONDUIT TO THE NEAREST JUNCTION BOX AND REMOVE CABLE IN ITS ENTIRETY BACK TO SOURCE.
- (3) REMOVE EXISTING TIMER LIGHT SWITCH. SWITCH SHALL BE REPLACED WITH NON-AUTOMATIC TOGGLE SWITCH. PREPARE CONDUCTORS FOR REPLACE SWITCH. COORDINATE LIGHTING POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE.
- (4) DISCONNECT RACEWAY AND CONDUCTORS FOR P-40. COORDINATE POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE. REMOVE CONDUIT AND CONDUCTORS IN THEIR ENTIRETY BACK TO SOURCE.





KEY PLAN

TM

BID SET

Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration Milwaukee, Wisconsin

100% SUBMITTAL 10/8/15 Project Number Office of 695-13-122 Construction Building Number 111 and Facilities Drawing Number Management

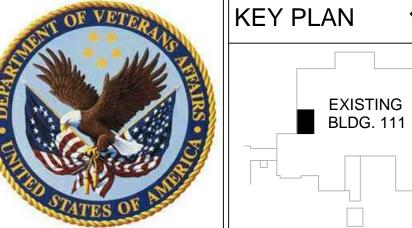
Department of Veterans Affairs



one eighth inch = one toot

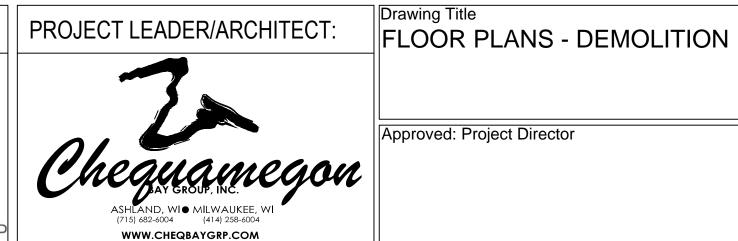
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VA FORM 08-6231





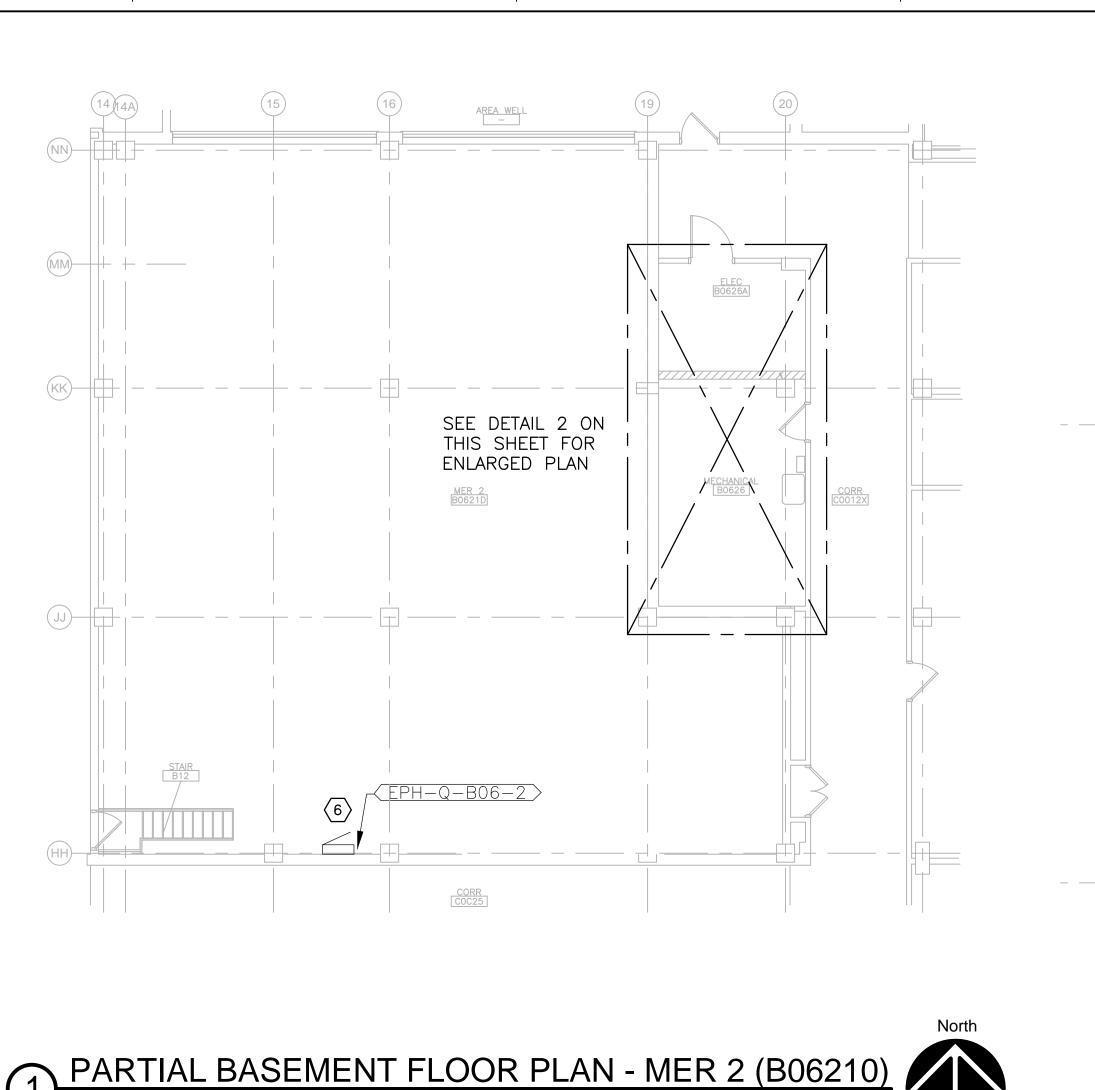
CONSULTANTS:



PROJECT LEADER/ARCHITECT:

Approved: Project Director

Checked DMW 10/08/15

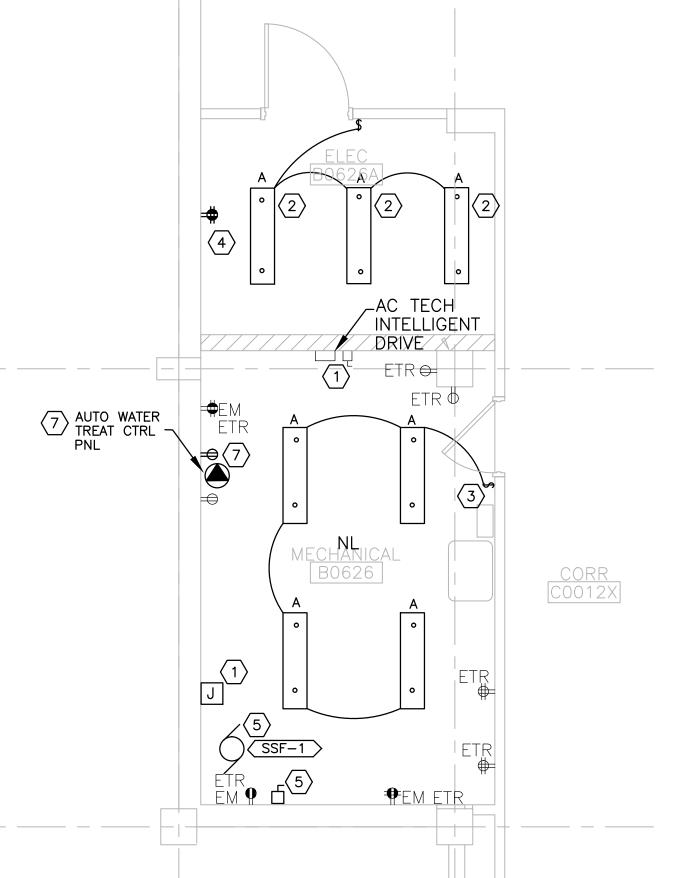


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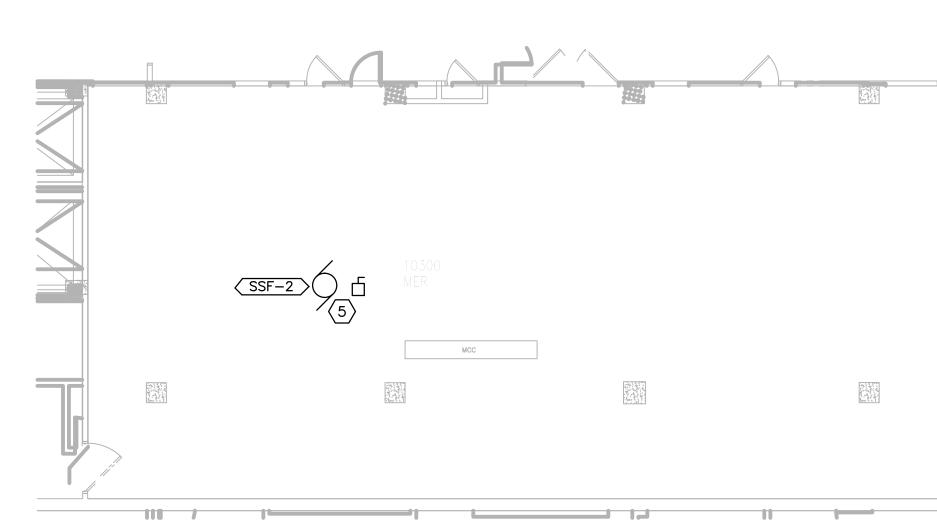
PARTIAL 11TH FLOOR PLAN

SCALE: 1/8"=1'-0"

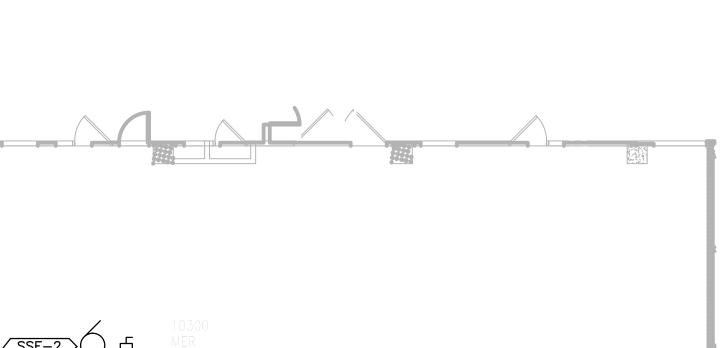
VA FORM 08-6231



2 ENLARGED PLAN
SCALE: 1/4"=1'-0"







4. CONTRACTOR PERFORMING CORING, DATE HOLE IS MADE, AND DATE HOLE WILL BE FIRE STOPPED (MAXIMUM 30 DAYS LATTER) 5. THIS WORK WILL REQUIRE OUTAGES. OUTAGES ARE TO BE

1. THIS CONTRACTOR SHALL VERIFY ELECTRICAL REQUIREMENTS INCLUDING VOLTAGE, HORSEPOWER, STARTER TYPE, AND

ORDERING CIRCUIT BREAKERS, DISCONNECT SWITCHES, AND

DISCONNECTING MEANS FOR MOTORS AND EQUIPMENT PRIOR TO

2. IN THE CASE OF CONFLICTS OR DISCREPENCIES WITHIN OR AMONG

THE CONTRACT DOCUEMENTS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUALITY OF WORK, AS DETERMINED BY

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- 8. WORK HOURS:

GENERAL NOTES:

THE GOVEMENT, SHALL BE PROVIDED.

STARTERS.

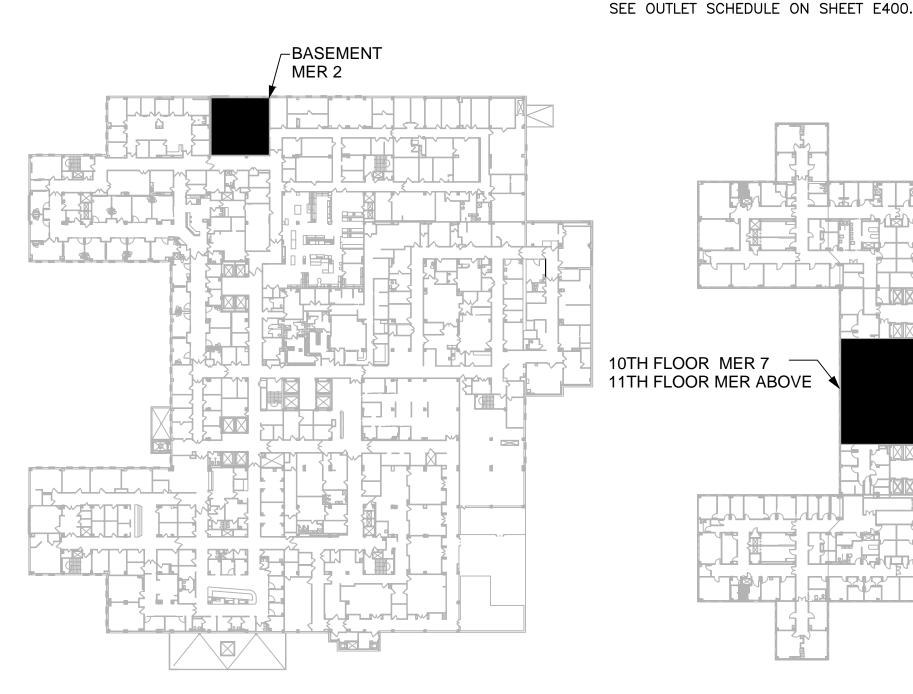
PHONE NUMBER.

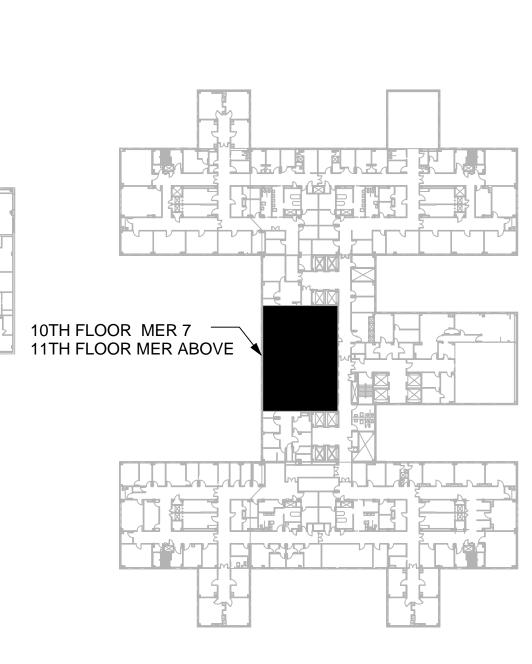
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KEYED NOTES

- RELOCATE EXISTING AC TECH INTELLIGENT DRIVE AND SWITCH. PROVIDE JUNCTION BOX FOR SPLICING AND EXTENSION OF CONDUCTORS. COORDINATE EXISTING POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE.
- (2) COORDINATE EXISTING LIGHTING POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE FOR NEW LUMINAIRES. PROVIDE 1/2"C, 2#14, 1#14G AND NEW 20A/1P, 120V, CIRCUIT BREAKER, MATCH EXISTING PANELBOARD RATING AND
- 3 PROVIDE NON-AUTOMATIC TOGGLE SWITCH FOR NEW LUMINAIRES. COORDINATE EXISTING LIGHTING POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE. PROVIDE 1/2"C, 2#14, 1#14G AND REUSE EXISTING CIRCUIT BREAKER FOR NEW
- PROVIDE 1/2"C, 2#12, 1#12G AND NEW RECEPTACLE. COORDINATE EXISTING NORMAL POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE AND EXTEND TO NEW RECEPTACLE.
- (5) SEE EQUIPMENT, PANEL SCHEDULES, AND ONE-LINES ON SHEET E400.
- (6) EXISTING PANELBOARD, SEE PANEL SCHEDULES AND ONE-LINES ON SHEET E400.
- 7 PROVIDE NEW SPECIAL OUTLET FOR AUTOMATIC WATER TREATMENT SYSTEM. COORDINATE EXISTING NORMAL POWER SOURCE WITH VA ELECTRICAL REPRESENTATIVE. PROVIDE 1/2"C, 2#14, 1#14G AND NEW 20A/1P, 120V, CIRCUIT BREAKER, MATCH EXISTING PANELBOARD RATING AND MANUFACTURER.







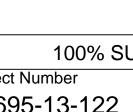


Drawing Title



Project Title

KEY PLAN



100% SUBMITTAL 10/8/15 Project Number Office of 695-13-122 Building Number Construction 111 and Facilities Drawing Number Management

NORTH

Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration Approved: Project Director

Milwaukee, Wisconsin Checked TM DMW 10/08/15

EP100

Department of Veterans Affairs

Dept. of Veterans Affairs Medical Center 5000 W. National Avenue

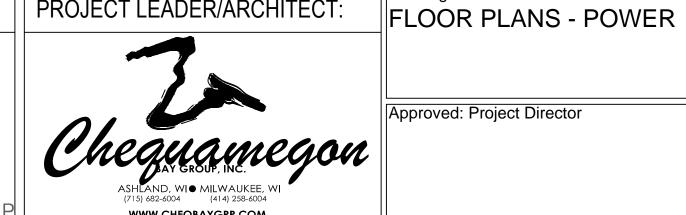


EXISTING BLDG. 111

KEY PLAN

≣SIGMA

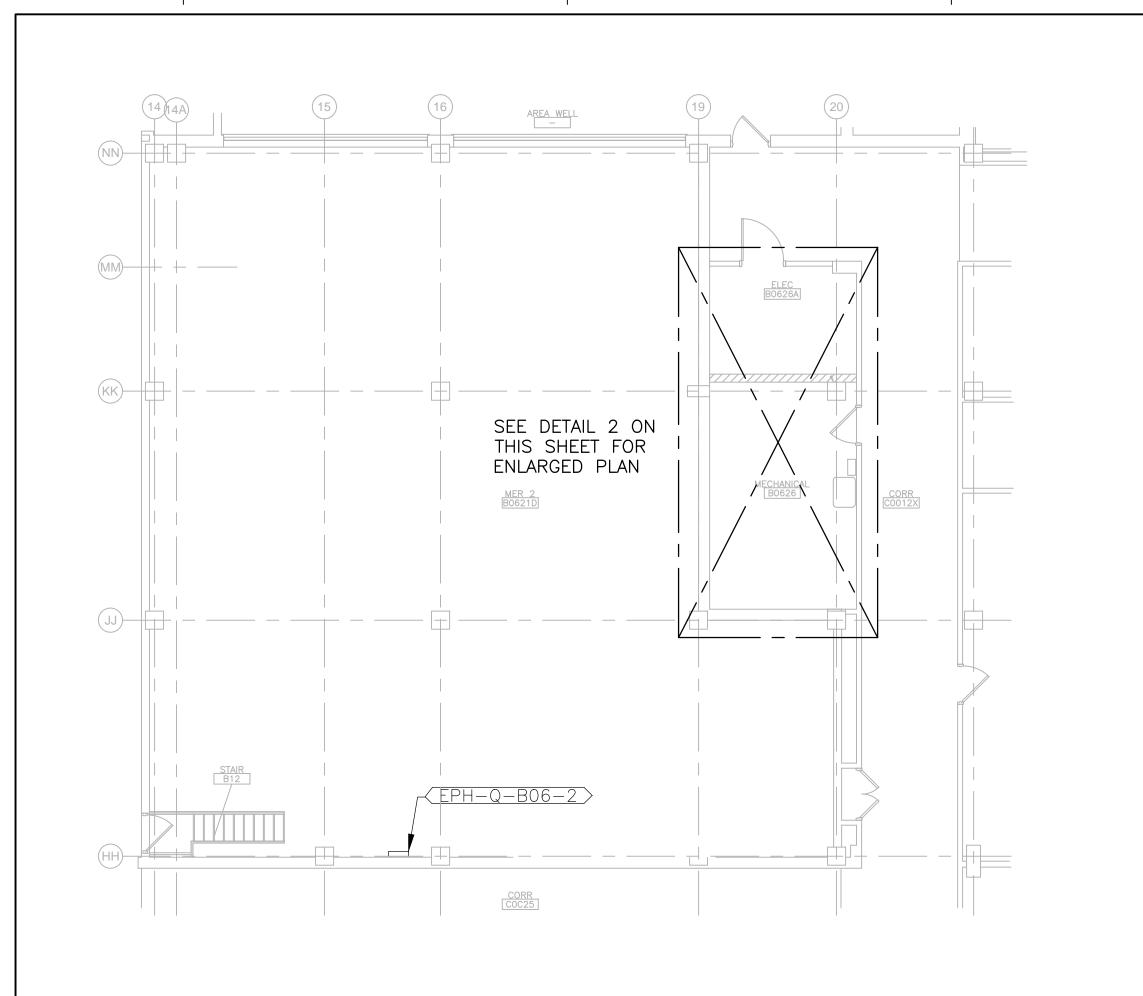
CONSULTANTS:

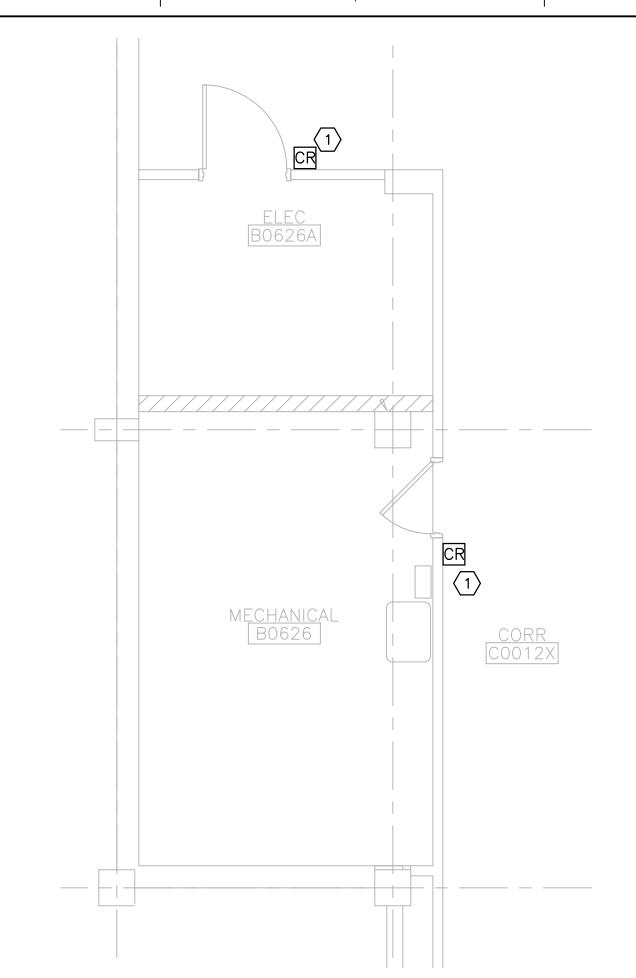


PROJECT LEADER/ARCHITECT:

Milwaukee, WI

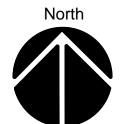
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PARTIAL BASEMENT FLOOR PLAN - MER 2 (B06210)
SCALE: 1/8"=1'-0"





GENERAL NOTES:

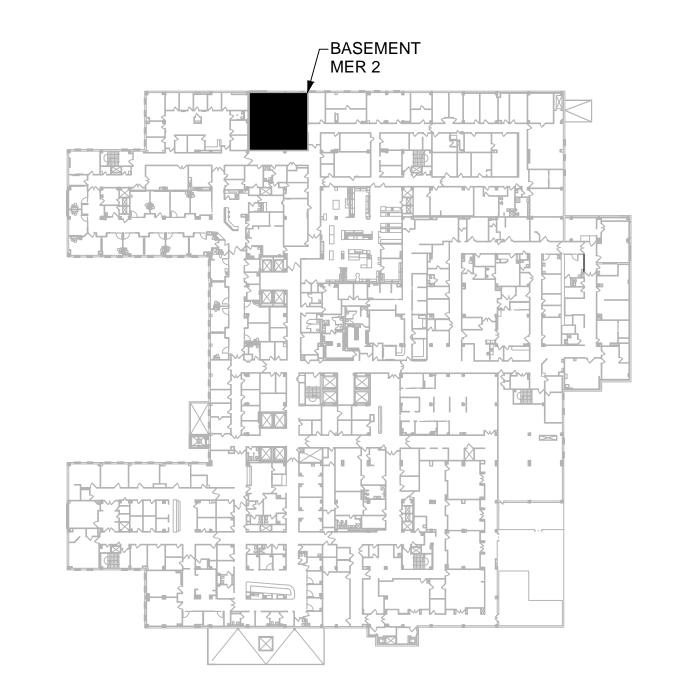
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KEYED NOTES

(1) PROVIDE NEW CARD READER AND EXTEND CIRCUITS TO EXISTING SYSTEM.



KEY PLAN



BID SET

Project Title Building 111 - Repair Expansion Tank & HVAC Piping Phase 1 - Expansion Tanks & Filtration

Project Number 695-13-122 Building Number 111 Drawing Number

100% SUBMITTAL 10/8/15 Office of Construction and Facilities Management

Checked TM DMW

Milwaukee, Wisconsin 10/08/15

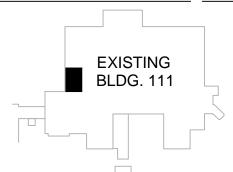
one eighth inch = one foot

0 4 8 16

VA FORM 08-6231

Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI







CONSULTANTS:



PROJECT LEADER/ARCHITECT:

Approved: Project Director

Drawing Title
FLOOR PLANS -

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ET100

Department of Veterans Affairs

LUMINAIRE SCHEDULE

			LAMPS		BALLAST		MOUNT	LUMINAIRE		OPTIONS/	ACCEPTABLE	NOTEO
ID	DESCRIPTION	NO.	TYPE	WATTS	TYPE	VOLTS	TYPE	MFGR	MODEL	ACCESSORIES	MANUFACTURERS	NOTES
A	4FT INDUSTRIAL STRIP, 5% UPLIGHT — CHAIN HUNG WITH WITH WIRE GUARD	2	FLUORESCENT	32	EL	UNIV	SUSPENDED	LITHONIA	EJA	1	COPPER, PHILLIPS	2

OPTIONS / ACCESSORIES CODE LISTING:

1. FURNISH WITH WIRE GUARD AND CHAIN MOUNTED ACCESSORIES

- 1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND
- ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED AS ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

 2. FIELD COORDINATE EXACT HEIGHT AND LOCATION OF LIGHT FIXTURES TO AVOID CONFLICTS WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPES, AND STRUCTURAL MEMBERS, FIXTURE SHALL BE CHAIN HUNG AND SUPPORTED FROM THE EXPOSED STRUCTURE.

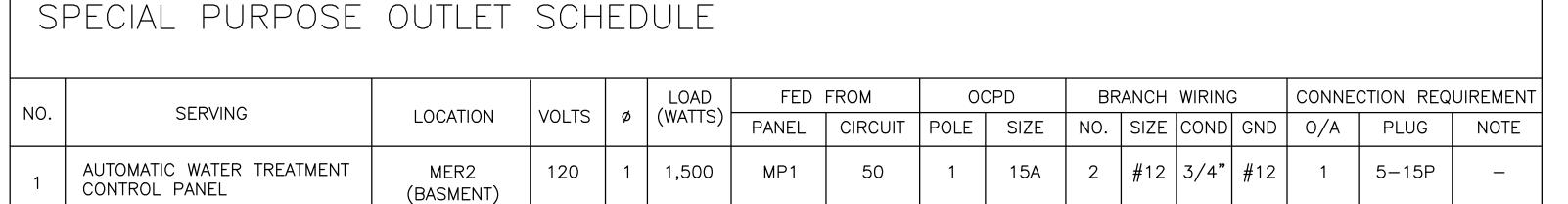
EQUIPMENT SCHEDULE

									FED FROM			OCPD			BRANCH	WIRING			DISC	ONNECT SW	TTCH		
TAG	SERVING	LOCATION	VOLT/PH	HP	FLA	KW	VA	PANEL	CKT	BRNCH	TYPE	SIZE	POLE	NO	SIZE	GND	COND	FURN B	' INST BY	WIRE BY	LOC	OPTIONS	SEE NOTE
SSF-1	MTHW	MER 2	480/3	10	14			EPH-Q-B06-2	8,10,12	EQ	СВ	25	3	3	10	10	3/4	MFR	MFR	MFR	IU		
SSF-2	LTHW	MER 7	480/3	5				EPH-Q-110-4	19,21,23	EQ	СВ	15	3	3	12	12	3/4	MFR	MFR	MFR	IU		

PANEL NAME: EXISTING EPH-Q-B06-2							PANEL LOCATION: MER2					
FED	FROM:	EPH-	-Q-B06-	.1		BRANCH: EQUIPMENT						
MAIN	TYPE:	CIRC	UIT BREA	KER			VC	DLTAGE: 277/480Y 3PH/4W				
PANE	L BUS AN	MPS:	100		AIC RATING:							
PANEL LOAD (kVA): X							PANEL LOAD (AMPS): X					
CIRCUIT #	AMP	POLES	OPTIONS & ACC.	NAME, DESCRIPTION AND REMARKS	CIRCUIT #	AMP	POLES	OPTIONS & ACC.	NAME, DESCRIPTION AND REMARKS			
1					2							
3	20	3		P-23 CONDENSATE (EXISTING)	4	20	3		SPARE (EXISTING)			
5					6							
7					8							
9	20	3		P-24 CONDENSATE (EXISTING)	10	25	3		SSF-1			
11				, ,	12							
13				SPACE	14				SPACE			
15				SPACE	16				SPACE			
17				SPACE	18				SPACE			
19				SPACE	20				SPACE			
21				SPACE	22				SPACE			
23				SPACE	24				SPACE			
25				SPACE	26				SPACE			
27				SPACE	28				SPACE			
29				SPACE	30				SPACE			
31				SPACE	32				SPACE			
33				SPACE	34				SPACE			
35				SPACE	36				SPACE			
37				SPACE	38				SPACE			
39				SPACE	40				SPACE			
41				SPACE	42				SPACE			

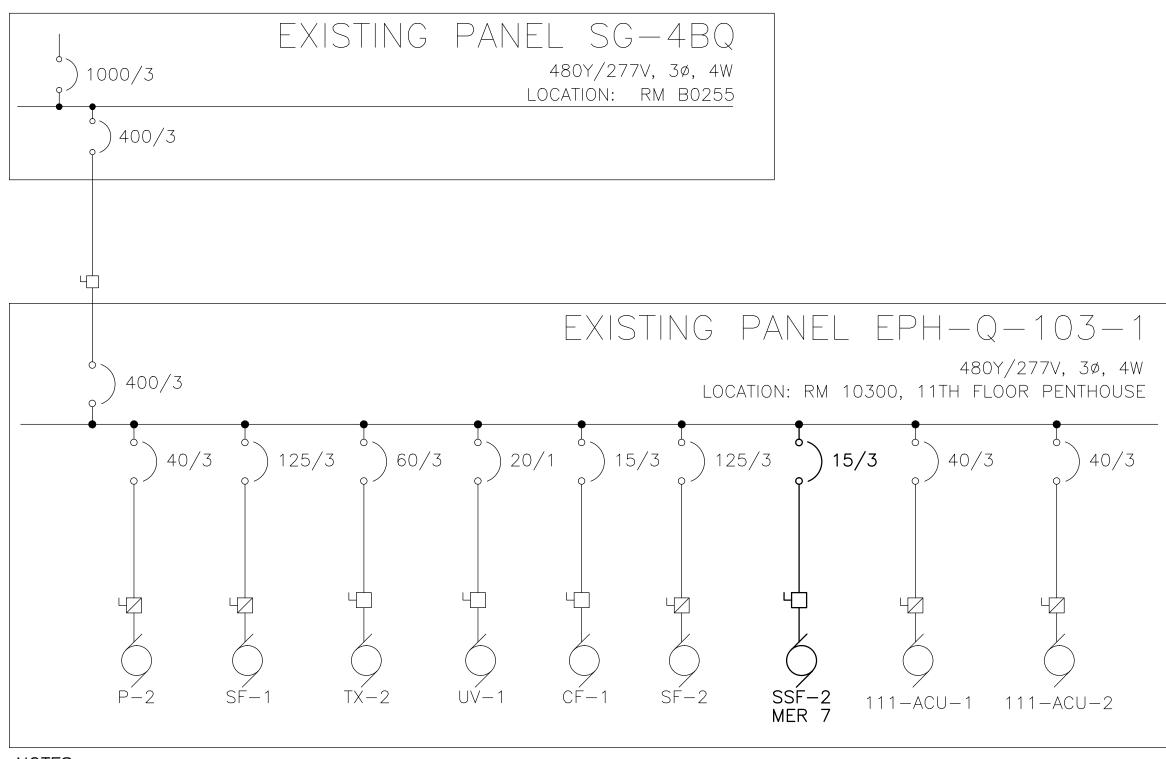
) KEWAKKS	
SPARE Existing)	
SSF-1	
SPACE	
SPACE SPACE	
SPACE	
31 / WL	

PANE	L NAME:	EXISTIN	NG EPH-Q	-103-1		PANEL	LOCA	TION: BO	255	
FED FROM: SG-4B1						BRANC	H: EQ	UIPMENT		
MAIN	TYPE: CI	RCUIT	BREAKER			VOLTAG	E: 27	77/480Y/	′3PH/4W	
PANE	EL BUS A	MPS: 4	.00			AIC RA	TING:			
PANE	IL LOAD ((kVA):				PANEL	LOAD	(AMPS):		
CIRCUIT #	AMP	POLES	OPTIONS & ACC.	NAME, DESCRIPTION AND REMARKS	CIRCUIT #	AMP	POLES	OPTIONS & ACC.	NAME, DESCRIPTION AND REMARKS	
1 3 5	40	3		P-2	2 4 6	125	3		SF-1	55A MEASURED AT LOAD
					8	20	1		UV	 16A
9	60	3		TX-2	10	20	'		SPACE	
11					12				SPACE	
13					14					EEA MEACUIDED
15	15	3		CF-1	16	125	3		SF-2	55A MEASURED AT LOAD
17					18	_				
19					20					
21	15	3		SSF-2	22	40	3		111-ACU-1	
23					24	40			TTT ACC T	
25				SPACE	26					SPACE RESERVED F 10A NORTH
27				SPACE	28	40	3		111-ACU-2	DIRECTORS OFFICES REMODEL
29				SPACE	30	40	J		111 ACC 2	
31				SPACE	32				SPACE	
33				SPACE	34				SPACE	
35				SPACE	36				SPACE	
37				SPACE	38				SPACE	
39				SPACE	40				SPACE	
41				SPACE	42				SPACE	



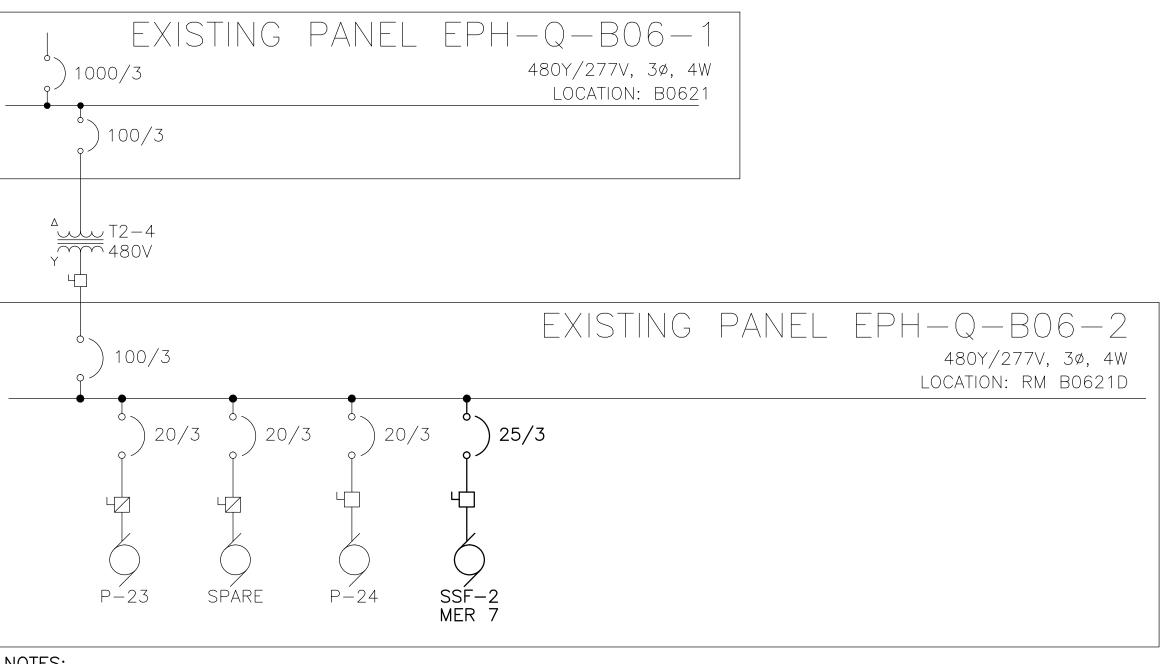
ABBREVIATIONS OPTIONS / ACCESSORIES

O/A = OPTIONS/ACCESSORIES OCPD = OVERCURRENT PROTECTIVE DEVICE 1. DUPLEX RECEPTACLE



1.REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

POWER DISTRIBUTION ONE-LINE SCALE: NONE

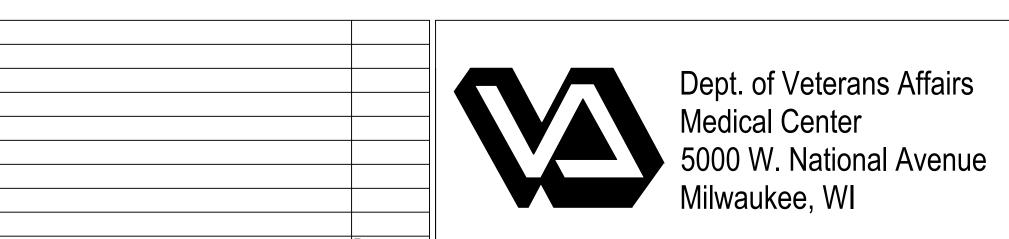


1.REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

2 POWER DISTRIBUTION ONE-LINE scale: None

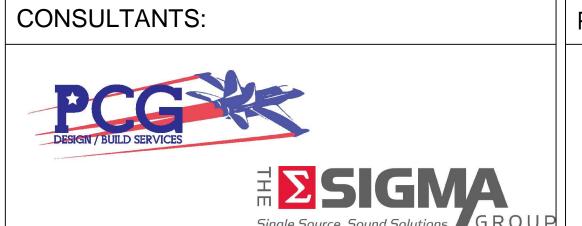
BID SET

DMW











DIAGRAMS	A DALUTEAT	Drawing Title SCHEDULES AND ONE LINE
		DIAGRAMS

_	Building 111 - Repair Expansion Tank & HVAC Piping
	Phase 1 - Expansion Tanks & Filtration
pproved: Project Director	Location Milwaukee, Wisconsin
	Date Checked Drawn

	100% SUB	MITTAL 10/8/15
	Project Number	
on	695-13-122	Office of
	Building Number	Construction
	111	and Facilities
	Drawing Number	Management
		_
M	E400	Department of Veterans Affairs

VA FORM 08-6231

one eighth inch = one toot

0 4 8 16

PANEL NOTES:

1. CAPACITY OF BREAKERS IS LESS THAN CAPACITY OF PANEL